ENVIRONMENTAL ASSESSMENT – PHASE I

HERITAGE VILLAGE
SOUTHWEST CORNER OF HIGHWAY 95 AND 100th AVENUE
PRINCETON, MINNESOTA
DELTA PROJECT NO. A004-111

Prepared for:

Heritage Village, LLC
c/o Solid Ground Development
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Prepared by:

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July 26, 2004

TABLE OF CONTENTS (CONT.)

List of Appendices

1.2 User Reliance

This report is for the use and benefit of, and may be relied upon by, Heritage Village, LLC and Solid Ground Development.

2.0 SITE DESCRIPTION

SUBJECT PROPERTY DESCRIPTION	
Subject Property Name	Heritage Village
Subject Property Owner	Mr. John Miller
Subject Property Occupant	Mr. John Miller is renting out the property at 1687 100th Avenue to a tenant whose identity was not disclosed.
Subject Property Address	Highway 95 and 100th Avenue, Princeton, Minnesota 55371
Subject Property Location	The center of the parcel is located at Universal Transverse Mercator Zone 15 451838.6 E 504625.0 N. The latitude and longitude coordinates for the subject property are 45°34'12.4" north and 93°37'1.9" west, respectively.
Subject Property Operations	The majority of the subject property is in agricultural production, wooded, or wetland. A homestead exists on a small portion of the property, located at 1687 100th Avenue.
Property Size	The subject property is 197.18 acres, which is composed of two parcels. On the north of 17th Street is 118 acres; another 80 acres lie south of 17th Street.
Land Area Description	The subject property is located in an agricultural area west of Princeton. The land area is roughly half in agricultural use, and half wooded or wetland. On the far east side of the subject property is a small residence and outbuildings. A road (17th Street) divides the northern and southern parcels.
Description of Structures	There are only four buildings on the property, consisting of a house and three outbuildings (a barn, shed, and garage).
Zoning	Currently is zoned Agricultural, but the zoning is being changed to Residential.
Site Topographic Relief	Generally flat, with a slight slope to the west and south.

A subject property location map is included as **Figure 1**. A subject property layout map is included as **Figure 2**.

3.0 USER-PROVIDED INFORMATION

The "User" as defined in this assessment is Heritage Village LLC and Solid Ground Development.

PHYSICAL SETTING INFORMATION FOR SITE AND SURROUNDING AREA		SOURCE
Topography		
Site Elevation	Approximately 987 feet above sea level.	*Princeton, Minnesota,* 7.5-Minute Series Topographic Map, United States Geological Survey (USGS), 1968 (photorevised 1982).
Surface Runoff/ Topographic Gradient	Terrain is primarily flat, with slight grade to the south and west.	
Closest Surface Water	West Branch of the Rum River, approximately 2,800 feet to the northeast.	
FEMA Map		
Zone	The subject property is located outside of the 500-year flood zone, but does include areas considered federal wetlands.	*Environmental Data Resources, Inc. (EDR) Radius Map with GeoCheck®*
Soil Characteristics		
Soil Type	The surficial sediments in the vicinity of the subject property consist of fine sand of the Zimmerman Series.	*EDR. Radius Map with GeoCheck*
Description	These soils exhibit high infiltration rates. Soils are deep, well drained to excessively drained sands and gravels. The soils have very high and high hydraulic conductivity and low water holding capacity. Depth to the water table is more than 6 feet.	
Geology/Hydrogeology		
Formation	Glacial outwash deposits were encountered in each of the 15 borings completed as part of a site geotechnical survey in 2003.	*Subsurface Geotechnical Assessment, Exploratory Soils Investigation,* Development Engineering, Pennsylvania, 2003.
Description	The glacial deposits consist of approximately 1 foot of black organic sand underlain by poorly graded brown sand.	
Geology/Hydrogeology		
Estimated Depth to First Occurrence of Ground Water	Saturated conditions were observed in the geotechnical borings at depths ranging from 3 to 6 feet below surface grade during the 2003 assessment.	*Subsurface Geotechnical Assessment, Exploratory Soils Investigation,* Development Engineering, Pennsylvania, 2003.
Hydrogeologic Gradient	The general direction of ground water flow in the area is assumed to be easterly, toward the West Branch of the Rum River.	

Based on a compilation of the historical sources, the following is a summary of historical land uses on adjoining properties:

DIRECTION	HISTORICAL USE OF ADJOINING PROPERTIES
North	Agricultural and residential development began prior to the 1930s, though records before that time were not available for this review. By 1939, all land in the area was used in crop farming. Between 1939 and the present, there has been gradual addition of new houses, but agriculture has always dominated the land use.
South	Agricultural and residential development began prior to the 1930s, though records before that time were not available for this review. By 1939, all land in the area was used in crop farming. Between 1939 and the present, there has been gradual addition of new houses, but agriculture has always dominated the land use.
East	Agricultural and residential development began prior to the 1930s, though records before that time were not available for this review. By 1939, all land in the area was used in crop farming. Between 1939 and the present, there has been gradual addition of new houses, but agriculture has always dominated the land use.
West	Agricultural and residential development began prior to the 1930s, though records before that time were not available for this review. By 1939, all land in the area was used in crop farming. Between 1939 and the present, there has been gradual addition of new houses, but agriculture has always dominated the land use.

A brief discussion of the findings from each of the historical sources is presented in Sections 4.2.3 through 4.2.7.

4.2.3 City Directories

City directories compiled by Polk City Directory were obtained for the subject property for the years 1990-91, 1995-96, and 1998-99. Directories were reviewed for 17th Street, 100th Avenue, Highway 95, and County Road 31. In this case, the site is defined as 1687 100th Avenue. The following is a summary of listings from the city directory review:

YEAR	SUMMARY OF CITY DIRECTORY LISTINGS
1990-91	**Subject Property:** Address not included in directory listing
	Surrounding Area: Residential listings, church
1995-96	**Subject Property:** John Edmonds
	Surrounding Area: Residential listings, multiple churches, driving school, masonry construction, building and restoration company, restaurant, corner store, bowling alley

4.2.6 Aerial Photographs

Aerial photographs of the site were obtained for the years 1939, 1953, 1965, 1974, 1983, 1991, and 2003. The site is defined as 1687 100th Avenue. Copies of these photographs are presented in **Appendix F**. The following is a summary of the aerial photographs review:

YEAR	SCALE	SUMMARY OF AERIAL PHOTOGRAPHS
1939	*1:6,000*	**Subject Property:** Developed with a house and outbuildings. Remaining land is in crop productions, with the exception of the wooded and wetland areas.
		Surrounding Area: Agricultural crop production, with a couple of homesteads.
1953	*1:9,600*	**Subject Property:** Developed with a house and outbuildings. Remaining land is in crop productions, with the exception of the wooded and wetland areas.
		Surrounding Area: Agricultural crop production. There are more homesteads and road development than in 1939.
1965, 1974, 1983, and 1991	*1:6,000*	**Subject Property:** Developed with a house and outbuildings. Remaining land is in crop productions, with the exception of the wooded and wetland areas.
		Surrounding Area: Agricultural crop production. There are more homesteads than in the 1953 photograph, but similar road development.
2003	*1:6,000*	**Subject Property:** Developed with a house and outbuildings. Remaining land is in crop productions, with the exception of the wooded and wetland areas.
		Surrounding Area: Agricultural crop production. There are more homesteads than in the 1991 photograph, but similar road development.

4.2.7 Property Records Review

Tax Assessor Files

A review of available tax assessment files for the subject property was performed by HIG. No documents were provided regarding this property.

Building Permits

A review of available building permit files for the subject property was performed by HIG. No documents were provided regarding this property.

Fire Department Files

Fire department records on file for public and private gas stations, L.P. installations, bulk plants, dry cleaning plants, closed gasoline stations, miscellaneous facilities, tank installations, and fire safety inspections were reviewed. No records were found regarding this property.

SUMMARY OF FEDERAL AND STATE AGENCY DATABASE FINDINGS			
REGULATORY DATABASE	MINIMUM SEARCH DISTANCE	SUBJECT PROPERTY LISTED	TOTAL FACILITIES LISTED
Emergency Response Notification System (ERNS)	Property	No	0
Superfund Consent Decrees (CONSENT)	1 mile	No	0
Record of Decision (ROD)	1 mile	No	0
Delisted NPL Sites (DELISTED NPL)	1 mile	No	0
Facility Index System (FINDS)	Property	No	0
Hazardous Materials Information Reporting System (HMIRS)	Property	No	0
Material Licensing Tracking System (MLTS)	Property	No	0
Mines Master Index File (MINES)	¼ mile	No	0
Federal Superfund Liens (NPL Liens)	Property	No	0
PCB Activity Database System (PADS)	Property	No	0
US Brownfields (US BROWNFIELDS)	½ mile	No	0
Department of Defense Sites (DOD)	1 mile	No	0
RCRA Administrative Action Tracking System (RAATS)	Property	No	0
Toxic Release Information System (TRIS)	Property	No	0
Toxic Substances Control Act (TSCA)	Property	No	0
Federal Insecticide, Fungicide, Rodenticide Act: Section 7 Tracking System (SSTS)	Property	No	0
Federal Insecticide, Fungicide, Rodenticide Act/TSCA Tracking System (FTTS)	Property	No	0
State			
State Hazardous Waste Sites/Superfund Permanent List of Priorities (SHWS – State Haz. Waste)	1 mile	No	0
Voluntary Investigation and Cleanup Program List (MN VIC)	½ mile	No	0
State Landfill Sites/Permitted Solid Waste Disposal Facilities (SWF/LF)	½ mile	No	0
Leaking Underground Storage Tank Sites (LUST)	½ mile	No	0
Registered Underground Storage Tank Sites (UST)	¼ mile	No	0
Underground Storage Tank Sites on Indian Land (INDIAN UST)	Property	No	0
Registered Aboveground Storage Tank Sites (AST)	Property	No	0
Minnesota Spills Database (MN Spills)	Property	No	0
Active TSD Facilities (MN HWS Permit)	1 mile	No	0
Permanent List of Priority Deletions (MN Deleted SHWS)	1 mile	No	0
Closed Landfills Priority List (MN LCP)	½ mile	No	0
List of Sites in MPCA Database (MN LS)	½ mile	No	0

location map is included as **Figure 1**. A subject property layout map is included as **Figure 2**. Representative site photographs are presented in **Appendix H**.

5.2 General Subject Property Setting

SUBJECT PROPERTY RECONNAISSANCE	
Field Personnel	Ms. Princesa VanBuren
Reconnaissance Date & Time	February 26, 2004, 1:00 p.m.
Weather	Approximately 40°F, partly cloudy, breeze at 0-5 mph
Escort	Mr. Eric Miller
Subject Property Description	
Subject Property Name	Heritage Village
Subject Property Owner	Mr. John Miller
Subject Property Occupant	Mr. John Miller is renting out the property at 1687 100th Avenue to a tenant whose identity was not disclosed.
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Property Size	The subject property is 197.18 acres, which is composed of two parcels. On the north of 17th Street is 118 acres; another 80 acres lie south of 17th Street.
Land Area Description	The subject property is located in an agricultural area west of Princeton. The land area is roughly half in agricultural use, and half wooded or wetland. On the far east side of the subject property is a small residence and outbuildings. A road (17th Street) divides the northern and southern parcels.
Description of Structures	There are four buildings on the property, consisting of a house and three outbuildings (a barn, shed, and garage).
Zoning	Currently is zoned Agricultural, but the zoning is being changed to Residential.
Site Topographic Relief	Generally flat, with a slight slope to the west and south.

CATEGORY	ITEM OR FEATURE	ITEM OR FEATURE OBSERVED?	LOCATION
Evidence of Releases or Potential Releases	Stressed vegetation	No	--
	Stained soil	No	--
	Stained pavement or similar surface	No	--
	Leachate and/or waste seeps	No	--
	Trash, debris, and/or other waste materials	No	--
	Dumping or disposal areas	No	--
	Construction/demolition debris and/or dumped fill dirt	No	--
	Surface water discoloration, odor, sheen, and/or free floating product	No	--
	Strong, pungent, or noxious odors	No	--
Other Notable Subject Property Features	Surface water control structure	No	--
	Quarries or pits	No	--
	Wells	No	--
	Floor drains	No	--

The subject property was included in the survey, as well as the barn and garage at 1687 100th Avenue. The house was not included in the survey. The storage building is being rented, and access was not possible as the site owner does not have a key for the storage building.

Information concerning the above categories that are marked "yes" is presented below:

- Small quantity containers of gasoline, oil, and household-type cleaners were stored inside the barn and garage.
- A rented propane tank is situated just next to the house (see subject property photographs presented in **Appendix H**).
- Two large metal drums were located outside of the barn, next to the silo. Based on moving the drums, they appear to be empty (see subject property photographs presented in **Appendix H**).

5.4 Subject Property Discussion

The subject property is located in an agricultural area west of Princeton. It totals 197.18 acres between two parcels: 118 acres on the north side of 17th Street and approximately 80 acres south of 17th Street. The land area is roughly half in agricultural use, and half wooded or wetland. There are only four buildings on the property, consisting of a house and three outbuildings (a barn, shed, and garage). Mr. John Miller is renting out the property at 1687 100th Avenue to an undisclosed tenant. The property was covered in

assessment has identified no historical recognized environmental conditions in connection with the subject property.

7.3 De Minimis Conditions

The ASTM E 1527-00 standard defines the term *de minimis conditions* as conditions that "generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies". The following de minimis conditions were identified in connection with the subject property.

- Due to the age of the building that had been on site (built prior to 1958), there is the potential that hazardous materials may have been encountered or released during demolition.
- A septic system exists adjacent to the home at 1687 100th Avenue. It consists of an underground tank and drainfield. The age of the system is unknown. The presence of the septic system is considered to be a de minimis condition.
- Small quantities of oil, gas, and household cleaners were seen in the barn and garage.
- Two apparently empty barrels were found next to the barn. What was, or may still be, stored in them is known.

8.0 CONCLUSION(S) AND RECOMMENDATIONS

Delta has performed a Phase I EA in general conformance with the scope and limitations of ASTM Practice E 1527-00 of the property located at the southwest corner of Highway 95 and 100th Avenue in Princeton, Minnesota. Any exceptions to or deletions from this practice are described in the body of this report. This assessment has revealed no recognized environmental conditions in connection with the subject property.

9.0 LIMITATIONS OF ENVIRONMENTAL ASSESSMENTS

The recommendations contained in this report represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently accepted professional standards. This report is based upon a specific scope of work requested by the client. The contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Delta's client and anyone else specifically identified in writing by Delta as a user of this report. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this report.

9.1 Subject Property Data Review

Delta obtained, reviewed, and evaluated information available from the User(s) property owner, designated representative(s), site contact, and local, state, or federal public entities to the extent

FIGURES

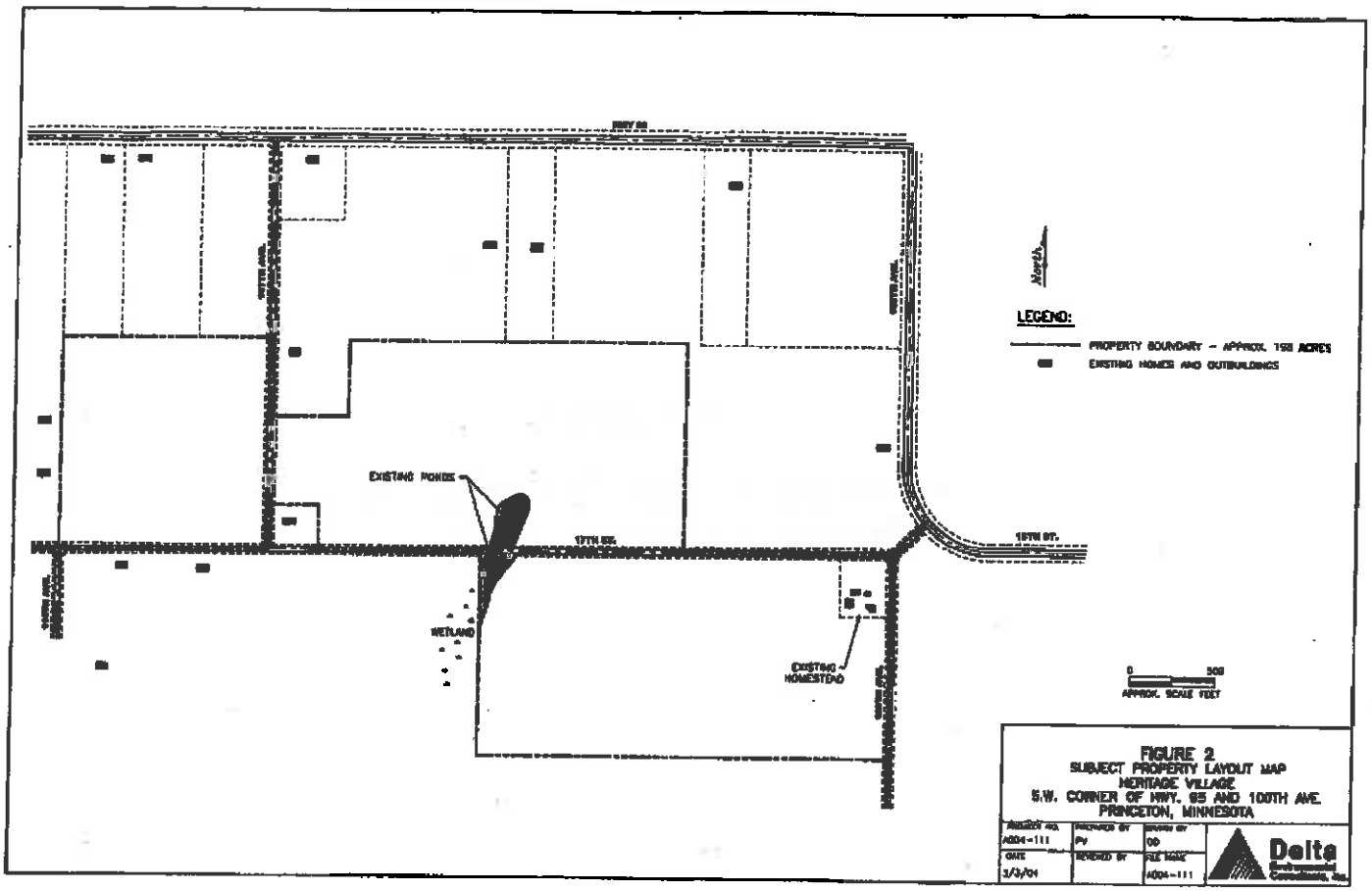


FIGURE 2
SUBJECT PROPERTY LAYOUT MAP
HERITAGE VILLAGE
S.W. CORNER OF HWY. 95 AND 100TH AVE.
PRINCETON, MINNESOTA

The EDR Radius Map
with GeoCheck®

Heritage Village
Highway 95 and 100th Avenue
Princeton, MN 55371

Inquiry Number: 01131386.1r

February 18, 2004

Environmental Data Resources, Inc.

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06460

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

[redacted]

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
WESTLING MANUFACTURING COMPANY	SHWS
GOOD ROADS EQUIPMENT CO	FINDS, RCRIS-LQG, MN Enforcement, CERC-NFRAP
GLENDORADO GARAGE	LUST
CONOCO	UST
O G HANSON & SON INC	UST
MINKS DAN	UST, AST
DARAN INC	UST
ROBERT TOBERMAN PROPERTY	UST
JOHNS INDEPENDENT OIL CO	UST
MARIGOLD/KEMPS	UST
KLARS COUNTRY MACHINING	RCRIS-SQG, FINDS
SMITH AL	RCRIS-SQG, FINDS
J K AUTO ELECTRIC	RCRIS-SQG, FINDS
ALLSTATE LEASING	RCRIS-SQG, FINDS
HEDSTROM TRUCK REPAIR	RCRIS-SQG, FINDS
HANSON OG AND SONS	RCRIS-SQG, FINDS
WESTGATE AUTOMOTIVE INC	RCRIS-SQG, FINDS
VIKING PARTS AND REPAIR	RCRIS-SQG, FINDS
STEVENS AARON	RCRIS-SQG, FINDS
KUETHER DON REPAIR	RCRIS-SQG, FINDS
EVENSON AUTOBODY	RCRIS-SQG, FINDS
KRUSE AVIATION	RCRIS-SQG, FINDS
J K AUTO ELECTRIC	RCRIS-SQG, FINDS
CENTRAL FLEET SERVICE	RCRIS-SQG, FINDS
ALLSTATE LEASING	RCRIS-SQG, FINDS
PLASTIC PRODUCTS CO INC	RCRIS-SQG, FINDS
AJM PAINTING INC	RCRIS-SQG, FINDS
WESTLING MANUFACTURING COMPANY	MN Deleted SHWS

Physical Setting Source Summary

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CDL		TP	NR	NR	NR	NR	NR	0
MN Enforcement		TP	NR	NR	NR	NR	NR	0
BULK		TP	NR	NR	NR	NR	NR	0
MN AGSPILLS		TP	NR	NR	NR	NR	NR	0
EDR PROPRIETARY HISTORICAL DATABASES								
Coal Gas		1.000	0	0	0	0	NR	0
BROWNFIELDS DATABASES								
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
MN VIC		0.500	0	0	0	NR	NR	0
INST CONTROL		0.250	0	0	NR	NR	NR	0

NOTES:

AQUIFLOW - see EDR Physical Setting Source Addendum

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Date of Government Version: 11/17/03
Date Made Active at EDR: 02/02/04
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 12/22/03
Elapsed ASTM days: 42
Date of Last EDR Contact: 12/22/03

CORRACTS: Corrective Action Report
Source: EPA
Telephone: 800-424-9346
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/18/03
Date Made Active at EDR: 02/02/04
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 12/26/03
Elapsed ASTM days: 38
Date of Last EDR Contact: 12/08/03

RCRIS: Resource Conservation and Recovery Information System
Source: EPA
Telephone: 800-424-9346
Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs): generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs): generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs): generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 01/12/04
Date Made Active at EDR: 02/10/04
Database Release Frequency: Varies

Date of Data Arrival at EDR: 01/19/04
Elapsed ASTM days: 22
Date of Last EDR Contact: 01/19/04

ERNS: Emergency Response Notification System
Source: National Response Center, United States Coast Guard
Telephone: 202-260-2342
Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances

Date of Government Version: 12/31/02
Date Made Active at EDR: 02/03/03
Database Release Frequency: Annually

Date of Data Arrival at EDR: 01/27/03
Elapsed ASTM days: 7
Date of Last EDR Contact: 01/26/04

FEDERAL ASTM SUPPLEMENTAL RECORDS

BRS: Biennial Reporting System
Source: EPA/NTIS
Telephone: 800-424-9346
The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/01/01
Database Release Frequency: Biennially

Date of Last EDR Contact: 12/16/03
Date of Next Scheduled EDR Contact: 03/15/04

CONSENT: Superfund (CERCLA) Consent Decrees
Source: EPA Regional Offices
Telephone: Varies
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: N/A
Database Release Frequency: Varies

Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

Date of Government Version: 10/16/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/22/03
Date of Next Scheduled EDR Contact: 03/22/04

STATE OF MINNESOTA ASTM STANDARD RECORDS

SHWS: Superfund Permanent List of Priorities
Source: Minnesota Pollution Control Agency
Telephone: 651-296-6139
State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 06/30/03
Date Made Active at EDR: 08/22/03
Database Release Frequency: Annually

Date of Data Arrival at EDR: 07/31/03
Elapsed ASTM days: 22
Date of Last EDR Contact: 12/10/03

VIC: Voluntary Investigation and Cleanup Program
Source: Minnesota Pollution Control Agency
Telephone: 651-296-7291
Voluntary Investigation and Cleanup (VIC) Program List.

Date of Government Version: 01/06/04
Date Made Active at EDR: 02/03/04
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 01/06/04
Elapsed ASTM days: 28
Date of Last EDR Contact: 01/06/04

SWF/LF: Permitted Solid Waste Disposal Facilities
Source: Minnesota Pollution Control Agency
Telephone: 651-296-7276
Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 12/16/03
Date Made Active at EDR: 02/03/04
Database Release Frequency: Varies

Date of Data Arrival at EDR: 12/17/03
Elapsed ASTM days: 48
Date of Last EDR Contact: 12/12/03

LUST: Leak Sites
Source: Minnesota Pollution Control Agency
Telephone: 651-649-5451
Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 11/17/03
Date Made Active at EDR: 12/05/03
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 11/18/03
Elapsed ASTM days: 17
Date of Last EDR Contact: 11/17/03

UST: Underground Storage Tank Database
Source: Minnesota Pollution Control Agency
Telephone: 651-649-5451
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 09/11/03
Date Made Active at EDR: 11/26/03
Database Release Frequency: Varies

Date of Data Arrival at EDR: 11/03/03
Elapsed ASTM days: 23
Date of Last EDR Contact: 11/03/03

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Centers
Source: Department of Human Services
Telephone: 651-296-3971

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U.S. Fish and Wildlife Service.

STREET AND ADDRESS INFORMATION

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT **GEOLOGIC AGE IDENTIFICATION**

Era:	Precambrian	Category:	Stratified Sequence
System:	Precambrian		
Series:	Z Sedimentary rocks		
Code:	Z *(decoded above as Era, System & Series)*		

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	ZIMMERMAN
Soil Surface Texture:	fine sand
Hydrologic Group:	Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.
Soil Drainage Class:	Excessively. Soils have very high and high hydraulic conductivity and low water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: LOW

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

Map ID Direction Distance Elevation	Database	EDR ID Number
1 NE 1/4 - 1/2 Mile Higher	MN WELLS	3048566697

Principal Well Information:

Unique Well #:	566697		
Township:	36	County:	MILLE LACS
Range:	26	Section	29
Subsection:	CCC	Elevation (in Ft.):	Not Reported
Location Method	Not Reported	Locator:	Not Reported
7.5 Minute Quadrangle:	Not Reported	Depth Completed (in Ft.):	91
Depth Drilled (in Ft.):	91	Date drilled:	08/31/1995
Status:	Active	Date of Last Update:	12/27/1995
Geographic Coordinates Method:		Not Reported	
Well Name:	TRUNK, EDWARD	Owner's Name:	Not Reported
Local Identifier:	Not Reported	Local Identifier Type:	Not Reported
Data Source/Driller's License #:		86270	
Casing Diam (in):	4	Depth Cased (in Ft.):	86
Permit #:	Not Reported	Permit Type:	Not Reported
First Bedrock:	Not Reported	Wellhead Protection Area:	Not Reported
Open Interval-Top:	Not Reported	Open Interval-Bottom Unit:	Not Reported
DNR Application #:	Not Reported	Well Grouted ?:	Yes
Well Sealed ?:	Not Reported	Date Well Abandoned:	Not Reported
Aquifer:	Not Reported		
Depth to Bedrock (Ft.):	Not Reported		
Any other Unused, Abandoned Well on Property ?:		No	
Potential Pollution Source Type:		Septic Tank/Drain Field	
Potential Pollution Source Distance (in Ft.):		51	
Potential Pollution Source Direction:		N	
Use:	Domestic		
Elevation Method:	Not Reported		
Data for this well are contained in the DNT Observation Well Network Data base:			Not Reported
Indicator that an entry for this well exists in the State Water Use Data System:			Not Reported
Data exist for this well in the PCA Integrated Ground-Water Information System:			Not Reported
Indicator of the availability of cuttings, core or downhole geophysical data for this well:			Not Reported
Indicator of the existence of a digitized UTM location for this well:			Not Reported

Well Address Information:

Well Address:	2012 100TH AV PRINCETON, MN 55371

Coliform/Nitrate/Static Water Level Information:

Coliform Bacteria Count:	Not Reported	Detection Limit Flag:	Not Reported
Coliform Sampling Date:	Not Reported	Coliform Analysis Source:	Not Reported
Colif. Analys. Reliability:	Not Reported	Bacteria Analysis Technique:	Not Reported
Nitrate Count (mg/l):	Not Reported	Nitrate Detection Limit Flag:	Not Reported
Nitrate Sampling Date:	Not Reported	Nitrate Analysis Source:	Not Reported
Nit. Analys. Reliability:	Not Reported	Nit. Analysis Technique:	Not Reported
Static Water Lev. (in Ft.):	15	Date Static Level measured:	08/31/1995
Static Water Level Data Source/Driller's License #:		86270	

[redacted]

Use:	Domestic		
Elevation Method:	7.5-minute Topographic Map (+ or - 5 Feet)		
Data for this well are contained in the DNT Observation Well Network Data base:			Not Reported
Indicator that an entry for this well exists in the State Water Use Data System:			Not Reported
Data exist for this well in the PCA Integrated Ground-Water Information System:			Not Reported
Indicator of the availability of cuttings, core or downhole geophysical data for this well:			Not Reported
Indicator of the existence of a digitized UTM location for this well:			Not Reported

Well Address Information:

Well Address:	RR 1 PRINCETON, MN

Coliform/Nitrate/Static Water Level Information:

Coliform Bacteria Count:	Not Reported	Detection Limit Flag:	Not Reported
Coliform Sampling Date:	Not Reported	Coliform Analysis Source:	Not Reported
Colif. Analys. Reliability:	Not Reported	Bacteria Analysis Technique:	Not Reported
Nitrate Count (mg/l):	Not Reported	Nitrate Detection Limit Flag:	Not Reported
Nitrate Sampling Date:	Not Reported	Nitrate Analysis Source:	Not Reported
Nit. Analys. Reliability:	Not Reported	Nit. Analysis Technique:	Not Reported
Static Water Lev. (in Ft.):	17	Date Static Level measured:	07/06/1976
Static Water Level Data Source/Driller's License #:		86270	

Geologic Information:

Geologic Interp. Method:	Interpreted in Context of Geologic Study between 1:24,000 and 1:100,000		
Geologic Interpretation Source:		Minn. Geological Survey	
Geologist Responsible:	EB	Date of Last Update:	07/14/1994

Drilling/Casing Information:

Drilling Method:	Non-specified Rotary	Drilling Fluid:	Not Reported
Casing Material:	Steel (Black or Low Carbon)	Casing Jointing:	Threaded
Casing Top to Ground Surface Distance:		1	
Any Drive Shoe:	No	Casing Installation:	Single Casing
Diameter of the largest Casing Set (in inches):		4	
Depth to the Top of the largest Casing Set (Ft.):		0	
Depth to the Bottom of the largest Casing Set (Ft.):		70	
Diameter of the 2nd largest Casing Set (in.):		Not Reported	
Depth to the Top of the 2nd largest Casing Set (Ft.):		Not Reported	
Depth to Bottom of the 2nd largest Casing Set (Ft.):		Not Reported	
Diameter of the 3rd largest Casing Set (in.):		Not Reported	
Depth to Top of the 3rd largest Casing Set (Ft.):		Not Reported	
Depth to Bottom of the 3rd largest Casing Set (Ft.):		Not Reported	
Diameter of the Top Section of the Hole (in.):		Not Reported	
Depth to the Bottom of the widest Section of the Hole (Ft.):		Not Reported	
Diameter of the 2nd largest Section of the Hole (in.):		Not Reported	
Depth to Bottom of the 2nd largest Section of the Hole (Ft.):		Not Reported	
Diameter of the 3rd largest Section of the Hole (in.):		Not Reported	
Depth to Bottom of the 3rd largest Section of the Hole (Ft.):		Not Reported	

Screen Information:

Depth to Top of uncased Interval in Ft. (if not screened):		Not Reported	
Depth to Bottom of uncased Interval in Ft. (if not screened):		Not Reported	
Any Screen present:	Yes	Screen Type:	Stainless Steel
Screen Make:	JOHNSON	Screen Diameter (in inches):	3
1st Screen Slot/Gauze:	15	1st Screen length:	4.92
1st Screen Depth to Top:	70	1st Screen Depth to Bottom:	75
2nd Scrn. Slot/Gauze:	Not Reported	2nd Scrn. length:	Not Reported
2nd Scrn. Depth to Top:	Not Reported	2nd Scrn. Depth to Bottom:	Not Reported

Drilling/Casing Information:

Drilling Method:	Non-specified Rotary	Drilling Fluid:	Bentonite
Casing Material:	Steel (Black or Low Carbon)	Casing Jointing:	Threaded
Casing Top to Ground Surface Distance:		1.0	
Any Drive Shoe:	No	Casing Installation:	Single Casing
Diameter of the largest Casing Set (in inches):		4	
Depth to the Top of the largest Casing Set (Ft.):		0	
Depth to the Bottom of the largest Casing Set (Ft.):		102	
Diameter of the 2nd largest Casing Set (in.):		Not Reported	
Depth to the Top of the 2nd largest Casing Set (Ft.):		Not Reported	
Depth to Bottom of the 2nd largest Casing Set (Ft.):		Not Reported	
Diameter of the 3rd largest Casing Set (in.):		Not Reported	
Depth to Top of the 3rd largest Casing Set (Ft.):		Not Reported	
Depth to Bottom of the 3rd largest Casing Set (Ft.):		Not Reported	
Diameter of the Top Section of the Hole (in.):		6	
Depth to the Bottom of the widest Section of the Hole (Ft.):		107	
Diameter of the 2nd largest Section of the Hole (in.):		Not Reported	
Depth to Bottom of the 2nd largest Section of the Hole (Ft.):		Not Reported	
Diameter of the 3rd largest Section of the Hole (in.):		Not Reported	
Depth to Bottom of the 3rd largest Section of the Hole (Ft.):		Not Reported	

Screen Information:

Depth to Top of uncased Interval in Ft. (if not screened):		Not Reported	
Depth to Bottom of uncased Interval in Ft. (if not screened):		Not Reported	
Any Screen present:	Yes	Screen Type:	Stainless Steel
Screen Make:	JOHNSON	Screen Diameter (in inches):	2
1st Screen Slot/Gauze:	15	1st Screen length:	5
1st Screen Depth to Top:	102	1st Screen Depth to Bottom:	107
2nd Scrn. Slot/Gauze:	Not Reported	2nd Scrn. length:	Not Reported
2nd Scrn. Depth to Top:	Not Reported	2nd Scrn. Depth to Bottom:	Not Reported

Pumpage Test/Driller Information:

Static Water Lev. (in Ft.):	16	Date Tested:	10/28/1991
1st Test Time (Hrs):	2	1st Test Pumpage (Gal/min):	20
2nd Test Time (Hrs):	Not Reported	2nd Test Pumpage (Gal/min):	Not Reported
3rd Test Time (Hrs):	Not Reported	3rd Test Pumpage (Gal/min):	Not Reported
Driller's Name:	Not Reported		
Water Level after 1st Pumping Test (in Ft.):		Not Reported	
Water Level after 2nd Pumping Test (in Ft.):		Not Reported	
Water Level after 3rd Pumping Test (in Ft.):		Not Reported	

Well Completion/Grout Information:

Pitless Adaptor Make:	MONITOR SNAP	Pitless Adaptor Model:	PY
Any Basement Offset:	No	Is Casing 1 Ft. Above Ground:	Yes
Grout 1 Material:	Cuttings	Grout 1 Material:	Not Reported
Grout 1 Top Depth:	Not Reported	Grout 1 Bottom Depth:	Not Reported
Grout 2 Material:	Not Reported	Grout 2 Material:	Not Reported
Grout 2 Top Depth:	Not Reported	Grout 2 Bottom Depth:	Not Reported
Grout 3 Material:	Not Reported	Grout 3 Material:	Not Reported
Grout 3 Top Depth:	Not Reported	Grout 3 Bottom Depth:	Not Reported
Any Plastic Casing Protection:		No	

Owner/Contact Address Information:

Owner's Address: 10703 95 SH
PRINCETON, MN 55371

Coliform/Nitrate/Static Water Level Information:

Coliform Bacteria Count:	Not Reported	Detection Limit Flag:	Not Reported
Coliform Sampling Date:	Not Reported	Coliform Analysis Source:	Not Reported
Colif. Analys. Reliability:	Not Reported	Bacteria Analysis Technique:	Not Reported
Nitrate Count (mg/l):	Not Reported	Nitrate Detection Limit Flag:	Not Reported
Nitrate Sampling Date:	Not Reported	Nitrate Analysis Source:	Not Reported
Nit. Analys. Reliability:	Not Reported	Nit. Analysis Technique:	Not Reported
Static Water Lev. (in Ft.):	15	Date Static Level measured:	06/13/1994
Static Water Level Data Source/Driller's License #:		02370	

C11
East
1/2 - 1 Mile
Lower

MN WELLS 3048470875

Principal Well Information:

Unique Well #:	470875		
Township:	36	County:	MILLE LACS
Range:	26	Section	32
Subsection:	ACA	Elevation (in Ft.):	Not Reported
Location Method	Not Reported	Locator:	Not Reported
7.5 Minute Quadrangle:	Not Reported	Depth Completed (in Ft.):	64
Depth Drilled (in Ft.):	64	Date drilled:	03/14/1991
Status:	Active	Date of Last Update:	09/22/1993
Geographic Coordinates Method:		Not Reported	
Well Name:	POFFER, BILL	Owner's Name:	Not Reported
Local Identifier:	Not Reported	Local Identifier Type:	Not Reported
Data Source/Driller's License #:		30604	
Casing Diam (in):	4	Depth Cased (in Ft.):	59
Permit #:	Not Reported	Permit Type:	Not Reported
First Bedrock:	Not Reported	Wellhead Protection Area:	Not Reported
Open Interval-Top:	Not Reported	Open Interval-Bottom Unit:	Not Reported
DNR Application #:	Not Reported	Well Grouted ?:	Yes
Well Sealed ?:	Not Reported	Date Well Abandoned:	Not Reported
Aquifer:	Not Reported		
Depth to Bedrock (Ft.):	Not Reported		

Any other Unused, Abandoned Well on Property ?:	Yes
Potential Pollution Source Type:	Other
Potential Pollution Source Distance (in Ft.):	62
Potential Pollution Source Direction:	SW
Use: Domestic	
Elevation Method: Not Reported	
Data for this well are contained in the DNT Observation Well Network Data base:	Not Reported
Indicator that an entry for this well exists in the State Water Use Data System:	Not Reported
Data exist for this well in the PCA Integrated Ground-Water Information System:	Not Reported
Indicator of the availability of cuttings, core or downhole geophysical data for this well:	Not Reported
Indicator of the existence of a digitized UTM location for this well:	Not Reported

Well Address Information:

Well Address: RR 4 BOX 13
PRINCETON, MN 55371

Use:	Domestic
Elevation Method:	Not Reported
Data for this well are contained in the DNT Observation Well Network Data base:	Not Reported
Indicator that an entry for this well exists in the State Water Use Data System:	Not Reported
Data exist for this well in the PCA Integrated Ground-Water Information System:	Not Reported
Indicator of the availability of cuttings, core or downhole geophysical data for this well:	Not Reported
Indicator of the existence of a digitized UTM location for this well:	Not Reported

Coliform/Nitrate/Static Water Level Information:

Coliform Bacteria Count:	Not Reported	Detection Limit Flag:	Not Reported
Coliform Sampling Date:	Not Reported	Coliform Analysis Source:	Not Reported
Colif. Analys. Reliability:	Not Reported	Bacteria Analysis Technique:	Not Reported
Nitrate Count (mg/l):	Not Reported	Nitrate Detection Limit Flag:	Not Reported
Nitrate Sampling Date:	Not Reported	Nitrate Analysis Source:	Not Reported
Nit. Analys. Reliability:	Not Reported	Nit. Analysis Technique:	Not Reported
Static Water Lev. (in Ft.):	10	Date Static Level measured:	04/28/1978
Static Water Level Data Source/Driller's License #:		73061	

16
NE
1/2 - 1 Mile
Lower

FED USGS **USGS0495885**

Agency:	MN040	Site ID:	453440093360701
Site Name:	36N26W29DBCD 01		
Dec. Latitude:	45.57774		
Dec. Longitude:	-93.60218		
Coord Sys:	NAD83		
State:	MN		
County:	Mille Lacs County		
Altitude:	985		
Hydrologic code:	07010207		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	19780419	Inven Date:	19980413
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	132		
Hole depth:	136	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1978-04-19	26.00	

17
SSW
1/2 - 1 Mile
Lower

MN WELLS **3071533145**

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
E21 NE 1/2 - 1 Mile Lower	MN WELLS	3045494867

Principal Well Information:

Unique Well #:	494867		
Township:	36	County:	MILLE LACS
Range:	26	Section	29
Subsection:	Not Reported	Elevation (in Ft.):	Not Reported
Location Method	Not Reported	Locator:	Not Reported
7.5 Minute Quadrangle:	Not Reported	Depth Completed (in Ft.):	75
Depth Drilled (in Ft.):	75	Date drilled:	08/28/1991
Status:	Active	Date of Last Update:	12/21/1991
Geographic Coordinates Method:		Not Reported	
Well Name:	ZIEGLER CONST	Owner's Name:	Not Reported
Local Identifier:	Not Reported	Local Identifier Type:	Not Reported
Data Source/Driller's License #:		86270	
Casing Diam (in):	4	Depth Cased (in Ft.):	70
Permit #:	Not Reported	Permit Type:	Not Reported
First Bedrock:	Not Reported	Wellhead Protection Area:	Not Reported
Open Interval-Top:	Not Reported	Open Interval-Bottom Unit:	Not Reported
DNR Application #:	Not Reported	Well Grouted ?:	Yes
Well Sealed ?:	Not Reported	Date Well Abandoned:	Not Reported
Aquifer:	Not Reported		
Depth to Bedrock (Ft.):	Not Reported		
Any other Unused, Abandoned Well on Property ?:		Not Reported	
Potential Pollution Source Type:		Septic Tank/Drain Field	
Potential Pollution Source Distance (in Ft.):		75	
Potential Pollution Source Direction:		W	
Use:	Domestic		
Elevation Method:	Not Reported		

Data for this well are contained in the DNT Observation Well Network Data base:	Not Reported
Indicator that an entry for this well exists in the State Water Use Data System:	Not Reported
Data exist for this well in the PCA Integrated Ground-Water Information System:	Not Reported
Indicator of the availability of cuttings, core or downhole geophysical data for this well:	Not Reported
Indicator of the existence of a digitized UTM location for this well:	Not Reported

Well Address Information:

Well Address: RT 4
PRINCETON, MN 55371

Owner/Contact Address Information:

Owner's Address: 11537 197TH AV NW
ELK RIVER, MN 55330

Coliform/Nitrate/Static Water Level Information:

Coliform Bacteria Count:	Not Reported	Detection Limit Flag:	Not Reported
Coliform Sampling Date:	Not Reported	Coliform Analysis Source:	Not Reported
Colif. Analys. Reliability:	Not Reported	Bacteria Analysis Technique:	Not Reported
Nitrate Count (mg/l):	Not Reported	Nitrate Detection Limit Flag:	Not Reported
Nitrate Sampling Date:	Not Reported	Nitrate Analysis Source:	Not Reported
Nit. Analys. Reliability:	Not Reported	Nit. Analysis Technique:	Not Reported
Static Water Lev. (in Ft.):	18	Date Static Level measured:	08/28/1991
Static Water Level Data Source/Driller's License #:		86270	

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002. 7.5-Minute DEMs correspond to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

SITE OBSERVATIONS

The property is an existing farmstead.

BORING LOCATIONS AND ELEVATION

The number of borings and their locations were determined by the Client and staked in the field. Boring locations with elevations are shown on the enclosed Site Drawing prepared by Land Surveyor, E.G. Rud & Sons.

FIELD INVESTIGATION

The borings were accomplished using the Standard Penetration Test (SPT) method of investigation using a Split-Barrel Sampler (SBS). An attachment describes the soil classification system used (Unified).

SOIL BORING RESULTS

Refer to the individual boring logs for a detailed description of soils and moisture conditions encountered. Attached to the soil boring logs is a key explaining terms and entries. The depth of individual layers of soils may vary somewhat from those indicated on the logs due to unsampled intervals between split-barrel sampler tests and, most importantly, the occurrence of transition between soil layers. Also, soil profiles not in the vicinity of the borings may vary. Refusal to auger advancement was not encountered at the boring locations, indicating lack of bedrock to depths tested.

Groundwater was encountered in all of the bore holes. The water level checks were performed at the completion of the boring and at varying times after the boring. The recordings are depicted in the boring logs. Groundwater levels may occur and vary according to various climatological and meteorological influences undetermined within the tie frame, scope and budget allowed in this investigation. In addition, area development patterns can influence groundwater. The indicated groundwater results are for conditions at the time of testing only.

CONCLUSIONS AND RECOMMENDATIONS

The following conclusions and recommendations are based upon interpreted results of boring logs. Because the borings represent a small portion of the site in relation to the proposed area of work, ongoing review of construction should be carried out. If excavations reveal subsurface soils of a different nature than those observed in the boring, the Geotechnical Engineer should be contracted for possibly revised recommendations (see the following sections below; 6. Inspections and Testing and 10. Limitations of Investigation).

1. General Site Suitability

No specific loading information was given to Development Engineering at the time of this report.

6. Inspection and Testing

The recommendations in this report are based on the subsurface conditions found at our test boring locations. Soil conditions can be expected to vary away from the soil boring locations, we recommend on-site observation by a Geotechnical Engineer or technician during construction to evaluate these potential changes. Soil density testing should be performed on new fill placed in order to document that the project specifications for compaction have been satisfied. Documentation should be provided on all house pads and roads including oversizing, depths of excavation, final pad size and elevations of the finished grades of compacted engineered fill.

7. Final Site Topography

Final soil surfaces should be graded to provide adequate drainage from structures and hard surfaces so that as little water as possible infiltrates into soils adjacent to the structures. The areas adjacent to footing walls should be adequately compacted, not loosely placed, to avoid this zone acting as a "sump" and creating nuisance conditions in the building area.

8. Pavement Subgrade Preparation

We refer to the attached sheet entitled "Bituminous Pavement Subgrade Preparation and Design" for information on pavement design and subgrade preparation including items such as test roll evaluation, subgrade drainage and compaction recommendations.

After removal of topsoil we anticipate that granular base soils should be suitable pavement subgrade material after surface compaction. After subgrade preparation, the stability of the pavement subgrade should be evaluated by means of a test roll prior to paving. New fill should be compacted per the Specified Density Method (MnDOT Specification 2105.3f1).

Parking lots and driveways should have clearance from maximum anticipated groundwater levels. This groundwater clearance, as practical, should be three feet or more from known groundwater level.

9. Pavement Section Thickness Designs

The thickness of pavement section will depend on the type of material present within the upper portion of the subgrade. It is assumed that this subgrade material will consist of the existing silt or sandy loams found on this site. In this report, we recommend the pavement design be based on an R-value of 70, AASHTO Soil Type A-3.

10. Limitations of Investigation

The Geotechnical Engineer has prepared this report using an ordinary level of care and in accordance with generally accepted foundation and soil engineering practices. Because the borings represent only a small portion of the total site and for other reasons, Development Engineering, P.A., does not warrant that the borings are necessarily representative of the entire site but only of the boring locations at the time of investigation. No warranty of the site is made or implied. The boring logs should only be used in preliminary design and estimating work and in conjunction with corrective procedures.

DEVELOPMENT ENGINEERING, PA

SOIL BORING LOG

1296 Hudson Road
St Paul, Mn 55106

PROJECT: 200 Acres Site, Princeton, Mn

LOG OF BORING NO: 2

DEPTH IN FEET	SURFACE ELEVATION: 980.89 DESCRIPTION & CLASSIFICATION	GEOLOGY	N	WB	SAMPLE #	SAMPLE TYPE	SAMPLE R	LAB & OTHER TESTS W	DEN	L.L./P.L.
1-	(0'-1') Black, Organic Sand, fine grained, poorly graded (OL-SP), Very Moist, Very Loose	Glacial Outwash	1	N	1	SBS	18			
2-	(1'-20') Grey Sand, fine grained, poorly graded, (SP), Very Moist, Very Loose									
3-			2.5	N	2	SBS	16			
4-	Brown and mottled @ 2.5'									
5-	Wet @ 3.5'									
6-	Loose @ 5'		7	Y	3	SBS	15			
7-										
8-	Light Brown @ 7.5'		5	Y	4	SBS	16			
9-										
10-										
11-			WT	Y	5	FA				
12-										
13-			WT	Y	6	FA				
14-										
15-										
16-			WT	Y	7	FA				
17-										
18-			WT	Y	8	FA				
19-										
20-			WT	Y	9	FA				
21-	End of Boring @ 20'. No Refusal.									

WEATHER: Clear

TEMP: 85°

WT = weight of truck

WATER LEVEL MEASUREMENTS

DATE	TIME (HRS)	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING MUD LEVEL	WATER LEVEL	
8/28/03	2:00	20'	20'	N/A	N/A	6.6'	BCR
8/28/03	2:15			3.4'	N/A	Wet	ACR
8/29/03	9:45			3.4'	N/A	Wet	

DRILLING DATA

CREW CHIEF: ELS

METHOD: 3.25 HSA
2" OD SBS
F-350 CME 45B

BORING COMPLETED: 8/28/03

DEVELOPMENT ENGINEERING, PA

SOIL BORING LOG

1296 Hudson Road
St Paul, Mn 55106

PROJECT: 200 Acres Site, Princeton, Mn

LOG OF BORING NO: 6

DEPTH IN FEET	SURFACE ELEVATION: 988.42 DESCRIPTION & CLASSIFICATION	GEOLOGY	N	WB	SAMPLE #	SAMPLE TYPE	SAMPLE R	LAB & OTHER TESTS W	DEN	L.L./P.L.
1-	(0'-1") Black, Organic Sand, fine grained, poorly graded (OL-SP), Dry, Loose	Glacial Outwash	6	N	1	SBS	18			
2-	(1"-20') Brown Sand, fine grained, poorly graded (SP), Dry, Loose									
3-	Mottled @ 2.5'		8	N	2	SBS	11			
4-										
5-	Moist and Mottled @ 5'									
6-			9	N	3	SBS	14			
7-		▽								
8-	Wet @ 7.5'		5	Y	4	SBS	13			
9-										
10-										
11-			6	Y	5	SBS	16			
12-										
13-			WT	Y	6	FA				
14-										
15-										
16-			WT	Y	7	FA				
17-										
18-			WT	Y	8	FA				
19-										
20-			WT	Y	9	FA				
21-	End of Boring @ 20'. No Refusal.									

WEATHER: Cloudy

TEMP: 70°

WT = weight of truck

WATER LEVEL MEASUREMENTS

DATE	TIME (HRS)	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING MUD LEVEL	WATER LEVEL	
8/29/03	10:30	20'	20'	N/A	N/A	9.2'	BCR
8/29/03	10:45			7.2'	N/A	Wet	ACR
8/29/03	12:10			7.1'	N/A	Dry	

DRILLING DATA

CREW CHIEF: ELS

METHOD: 3.25 HSA
2" OD SBS
F-350 CME 45B

BORING COMPLETED: 8/29/03

DEVELOPMENT ENGINEERING, PA

SOIL BORING LOG

1296 Hudson Road
St Paul, Mn 55106

PROJECT: 200 Acres Site, Princeton, Mn

LOG OF BORING NO: 10

DEPTH IN FEET	SURFACE ELEVATION: 982.12 DESCRIPTION & CLASSIFICATION	GEOLOGY	N	WB	SAMPLE #	SAMPLE TYPE	SAMPLE R	LAB & OTHER TESTS W	DEN	L.L./P.L.
1-	(0'-1') Black, Organic Sand, fine grained, poorly graded (OL-SP), Moist, Loose	Glacial Outwash	7	N	1	SBS	14			
2-	(1'-2') Dark Brown Sand, fine grained, poorly graded (SP), Mottled, Moist, Loose									
3-	(2'-20') Brown Sand, fine grained, poorly graded (SP), Moist, Loose		11	N	2	SBS	15			
4-										
5-	Light Brown and Very Moist @ 5'									
6-		▽	9	Y	3	SBS	16			
7-	Wet @ 6.5'									
8-			8	Y	4	SBS	16			
9-										
10-										
11-			WT	Y	5	FA				
12-										
13-			WT	Y	6	FA				
14-										
15-										
16-			WT	Y	7	FA				
17-										
18-			WT	Y	8	FA				
19-										
20-			WT	Y	9	FA				
21-	End of Boring @ 20'. No Refusal.									

WEATHER: Sunny

TEMP: 75°

WT = weight of truck

WATER LEVEL MEASUREMENTS

DATE	TIME (HRS)	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING MUD LEVEL	WATER LEVEL	
9/2/03	10:30	20'	20'	N/A	N/A	7.0'	BCR
9/2/03	10:45			6.3'	N/A	Wet	ACR
9/2/03	10:55			6.1'	N/A	Dry	

DRILLING DATA

CREW CHIEF: ELS

METHOD: 3.25 HSA
2" OD SBS
F-350 CME 45B

BORING COMPLETED: 9/2/03

DEVELOPMENT ENGINEERING, PA

SOIL BORING LOG

1296 Hudson Road
St Paul, Mn 55106

PROJECT: 200 Acres Site, Princeton, Mn

LOG OF BORING NO: 14

DEPTH IN FEET	SURFACE ELEVATION: 981.88 DESCRIPTION & CLASSIFICATION	GEOLOGY	N	WB	SAMPLE #	SAMPLE TYPE	SAMPLE R	LAB & OTHER TESTS W	DEN	L.L./P.L.
1-	(0"-7") Black, Organic Sand, fine grained, poorly graded (OL-SP), Moist, Very Loose	Glacial Outwash	2	N	1	SBS	16			
2-	(7"-20') Brown Sand, fine grained, poorly graded, (SP), Moist, Very Loose									
3-			6	Y	2	SBS	15			
4-	Light Brown and Mottled, Loose @ 2.5'									
5-	Wet @ 4'									
6-	Trace of Organic Fibers @ 5'		6	Y	3	SBS	14			
7-										
8-	Very Loose @ 7.5'		2	Y	4	SBS	16			
9-										
10-	Grey, Loose @ 10'									
11-			9	Y	5	SBS	15			
12-										
13-			WT	Y	6	FA				
14-										
15-										
16-			WT	Y	7	FA				
17-										
18-			WT	Y	8	FA				
19-										
20-			WT	Y	9	FA				
21-	End of Boring @ 20'. No Refusal.									

WEATHER: Clear

TEMP: 75°

WT = weight of truck

WATER LEVEL MEASUREMENTS

DATE	TIME (HRS)	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING MUD LEVEL	WATER LEVEL	
9/2/03	2:20	20'	20'	N/A	N/A	7.2'	BCR
9/2/03	2:35			4.0'	N/A	Wet	ACR
9/2/03	2:45			3.9'	N/A	Dry	

DRILLING DATA

CREW CHIEF: ELS

METHOD: 3.25 HSA
2" OD SBS
F-350 CME 45B

BORING COMPLETED: 9/2/03

GENERAL TERMINOLOGY NOTES FOR SOIL IDENTIFICATION AND DESCRIPTION

GRAIN SIZE

Term	ASTM
Boulders	Over 12"
Cobbles	3" to 12"
Gravel	#4 sieve to 3"
Sand	#200 to #4 sieve
Fines (silt and clay)	Pass #200 sieve

GRAVEL PERCENTAGES

Term	Percent
A little Gravel	3% to 15%
With Gravel	15% to 30%
Gravelly	30% to 50%

CONSISTENCY OF PLASTIC SOILS

Term	N-Value, BPF
Very Soft	less than 2
Soft	2-4
Medium	5-8
Stiff	9-15
Very Stiff	16-30
Hard	Greater than 30

RELATIVE DENSITY OF NON-PLASTIC SOILS

Term	N-Value, BPF
Very Loose	0-4
Loose	5-10
Medium Dense	11-30
Dense	31-50
Very Dense	Greater than 50

MOISTURE/FROST CONDITION

D (Dry): Absence of moisture, dusty, dry to touch.

M (Moist): Damp, although free water not visible. Soil may still have a high water content (over 'optimum").

W (Wet/ Waterbearing): Free water visible. Intended to describe non-plastic soils.

F (Frozen): Soil frozen.

LAYERING NOTES

Laminations: Layers less than ½"thick of differingmaterial or color.

Lenses: Pockets of layers greater than ½" thick of differing material or color.

FIBER CONTENT OF PEAT

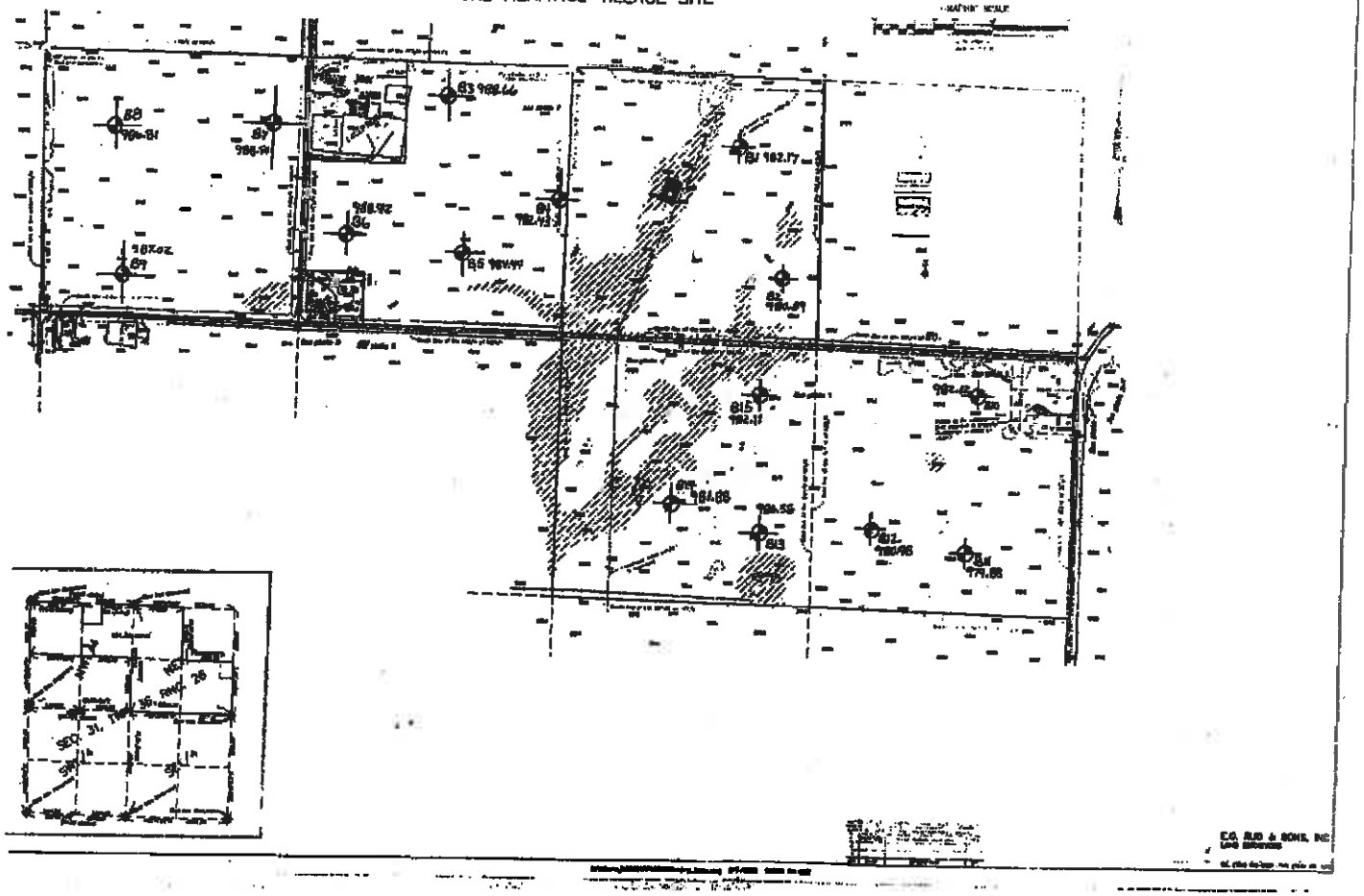
Term	Fiber Content (Visual Estimate)
Fibric	Greater than 67%
Hemic	33 to 67%
Sapric	Less than 33%

ORGANIC DESCRIPTION

Non-peat soils are described as organic, if soil is judged to have sufficient organic content to influence the soil properties.

BOUNDARY AND TOPOGRAPHIC SURVEY

FOR: HERITAGE VILLAGE, LLC ~OF~ FUTURE HERITAGE VILLAGE SITE



CITY DIRECTORIES

RR 4 56371
5841 Virgil Schmatz ...85 389-2197
6023 Cary Poorker ... ¤ 389-4016
Diane Porter ... ¤ 389-4016
14 RESIDENCE

90TH ST
RR 4 56371
7800 Ray Tellinghuisen .80 389-2868
8831 Mike Larsen 76 389-4370
9261 Gerald Pangerl ...70 389-1862
9363 Patty Lou Dobson .. 389-1612
9636 Myron Zoren ...93 389-6616
9897 Tyrone Thomas ..94 389-5954
6 RESIDENCE

100TH AVE
RR 1 56371
1162 Simon W Thielen .80 389-3427
1261 Gary Anderson ...63 389-3326
1687 John Edmonds ...74 389-1142
1849 Robert M Pontious 79 389-4868
2012 Edward A Trunk ..84 389-3391
2045 Rev Ed Sornberger 94 389-2405
*Rev E Sornberger ..94 389-2405
3061* Assembly of God Ch 93 389-4658
3100 T Donner 85 389-4661
3148 Del Liestman 73 389-1233
3193 Earl N Brooks ...80 389-2608
RR 4 56371
3425 Wallace Lefebvre .70 389-2236
Robert Webb .... – 389-2279
3827 Henry Sakry 70 389-1141
3918 Steven Davis 94 389-4322
4021 Leonard Sanford ..93 389-2635
4124 Richd R Sproessig .78 389-4077
4208 Carl G Sanford ...63 389-4050
4518 Bernard Sanford ..63 389-2626
3556 Douglas Sanford ..63 389-2938
4081 Richard W Sanford 78 389-1675
4854 Clifford Bergfeld ..80 389-2146
4887 Daniel Minks 80 389-1530
*Go Driving School .86 389-2623
4956 Bernard Minks ...60 389-2840
5127 Rodney Clemons ..76 389-2249
5466 Bill Irvine .... – 389-3269
5487* R C Masoney Cnstrc 87 389-4220
7206 Kurt Homstad ...85 389-3562
7403 Laurence Winter ..71 389-4967
7846* Mid-St Bldg&Restor 94 389-5686
7892 Anton J Renko ...73 389-2157
27 RESIDENCE 5 BUSINESS

100TH ST
RR 6 56371
29640 Les Komula 94 389-5650
29722 Greg Bach 94 389-5662
Chad Welu 94 389-5662
?741 Robert F Gallus .. 389-4133
?924 Ed Minster ......■ 389-3223
?034 Swain Wudtke ...■ 389-3793
30104
EX123 Joe Fobbe 93 389-2199
?132 Michelle Buisman . ¤ 389-2702
?224 Eugene Throneson . – 389-3202
?241 Erma M Nielsen ..60 389-1827
?0310 Edward Weissenfluh 93 389-4011
30322 L E Weissenfluh ..84 389-1918
12 RESIDENCE

104TH ST
RR 6 56371
31338 Peter Potvin ..... – 389-2467
31512 Sharon K Hatton .. – 389-2158
Brian Truex ..... ¤ 389-2158
RR 5 56371
?113 Steve Whitcomb ..78 389-4624
32141 Wm L Ciskovsky ..69 389-1617
32227 George Berning ..82 389-3746
?309 Thomas Geerkink .92 389-2608
7 RESIDENCE

105TH AVE
RR 1 56371
2302 Teresa Winkelman .82 389-3769
?626 J Matson 94 389-9190
?636 Randall Miskowic .89 389-3648
Robert O Miskowic ¤ 389-4627
*R O Miskowic CPA – 389-4627
RR 4 56371
?571 Mark S Wilhelm ..78 389-1115
?312 Joe L Deglmann ..87 389-2659
?373 Darlene Sipe 72 389-4509
7 RESIDENCE 1 BUSINESS

107TH AVE
New Street-1995.
RR 1 56371
2214 Larry Rolfe ..... – 389-9460
1 RESIDENCE

108TH ST
RR 6 56371
29441 Curt Hoffus ...... – 389-5225
29602 Spencer Angstman .80 389-4056
29633 Duane G Nelson ..88 389-3330
29730 Robert Leroux ... ¤ 389-5261
29811 Wayne G Olson ...93 389-1443
29840 .... NP
29908 Sue Cossette 91 389-3181
Clarence Wenzel .. ¤ 389-4743
Clarence Wenzel ..94 389-9218
*Time Plbg&Htng Svc 80 389-4743
*Clarence Wenzel ..71 ● 389-4743
30010 Robert Kraft .... ¤ 389-4237
30038 Terry Daniels 73 389-4569
30043 Bruce Keun 87 389-2647
30119 Robert Steinberg ..88 389-5061
Eldon Zaske 90 389-5061
30140 Clayton Sorenson . ¤ 389-2183
30234 George D Claassen – 389-4728
30249 Gary Hulett 91 389-5147
30311 Bill Arseneau .... ¤ 389-4467
30535 Edwin A Hess ...92 389-5847
30610 Harold Cordes ...74 389-4638
30631 Dale Rittenour ..72 389-2310
30702 Dale Nordby 73 389-4883
30738 Joel R Bertz 76 389-4844
30844 Phil Alderink 87 389-1638
31000 Lyle Vanblaricom .91 389-6416
25 RESIDENCE 2 BUSINESS

110TH AVE
RR 1 56371
1617 Larry McGhan ...88 662-2647
1624 Greg Anderson ... ¤ 389-1684
1646
EX259 R Davidson 93 389-5273
1633 Clairmont Kasler ..84 389-3236
RR 6 56371
1732 .... NP
RR 4 56371
3974 Michelle Anderberg 93 389-5222
5231 Kenneth Henchen .80 389-5067
5257 John A Kuehn ...81 389-1620
5658 Jake Koppendrayer 70 389-1697
6025 Michael Englert ..94 389-5662
6167 Lance Erickson .. ¤ 389-1089
6489 Harm Heinke 91 389-2930
12 RESIDENCE

112TH AVE
RR 4 56371
7152 Howard Kiofstad ..94 389-1464
7156 June A Hanson ..89 389-5054
2 RESIDENCE

112TH ST
New Street-1993.
RR 5 56371
32212 James Peterson ..88 389-2676
32421 Thomas Reynolds . ¤ 389-4124
2 RESIDENCE

115TH AVE
RR 1 56371
1231 Scott Angstman .. ¤ 662-2170
1497 Leo Steinhagen ..88 662-2771
1874 .... NP
1942 Steve Lundeen ...60 389-2647
1976 Glen Hansen 70 389-4396
2012 Robert Nixon 74 389-4293
2084 Michael Wilkins ..82 389-5217
2158 Keith Julson 82 389-5250
2278 Matthew Miller ...91 389-5372
2338 Theresa Meyer ... ¤ 389-5788
Joel Vandenberg .. ¤ 389-5788
2394 Morris Polman ...75 389-4333
2406 James A Wnuk ..78 389-2827
2428* Furniture Dagne ..86 389-3467
2491 Leonard Bergeron .92 389-5405
2531 Dale E Anderson ..70 389-4174
2767 Ralph Benik 93 389-5603
2785 Dean Carling 78 389-4251
2812 V R Buffington ... ¤ 389-5537
P Okafor .... ■ 389-5056
2908 Paul Dunker ..... – 389-5258
2971 Clifford Peterson ..93 389-2331
3204 Don Talberg 84 389-1730
RR 4 56371
3868 V M Anderson ...69 389-2988
4759 Gerald Walsh ...89 389-2539
24 RESIDENCE 1 BUSINESS

116TH ST
RR 6 56371
29028 Carl J Reibestein .80 389-3726
30028* Cerqua Quality Hm 91 389-5509
30107 Dennis Pederson ..94 389-5208
30126 Laverne F Eiler ..67 389-3758
30209 Duane Weissenfluh 81 389-5626
30313 Tim Pfundt 88 389-2760
Scott Weissenfluh .85 389-5714
30134 Joseph Bakos ...93 389-5676
30428 Randy L Black ...88 389-2325
30518 Steve Sanborn ..87 389-1342
30544 Robert Anderson .. ¤ 389-9885
30630 Richard Moeser .. ¤ 389-1881
30739 Chris Kardong ...91 389-2524
30845 David Fowler .... ¤ 389-4181
31636 Dennis Almen .... ¤ 389-9716
14 RESIDENCE 1 BUSINESS

117TH ST 56371
New Street-1995.
10112 Douglas Hafften .. ¤ 662-2116
1 RESIDENCE

120TH AVE
RR 1 56371
2456 G Schutz 89 389-2482
2551 Arlee Forschen .. ¤ 389-4857
2592 Tracey Foley 93 389-2710
2606 Donald L Olson ..84 389-3468
RR 4 56371
2871 Arvid Pearson ... 389-3317
2937 Andrew Rotz .... ■ 389-9006
2938 Dennis C Aleckson ■ 389-9884
3142 Sheryl J Johnson .92 389-5628
3204 Kenneth D Jensen .90 389-5852
3354 Richard Swedean ..91 389-9541
3366 Ray Quigley .... ¤ 389-3318
3568 S Nelson 92 389-4641
4363 David Trunk 84 389-2789
4394 Carl Nelson 65 389-3088
4748 Ruben Peterson ..80 389-1368
4787 Dewayne Arthur ..77 389-3059
4879 Robert Deglmann .87 389-1687
5131 Llewelyn Northway 73 389-1297
5174 Clarence Steeves .60 389-1597
5293 Brent Betzler .... ¤ 389-2241
20 RESIDENCE

120TH ST
RR 6 56371
28434 Timothy Porter ...90 389-3469
28513 Les Mazo ...... ¤ 389-5193
K McCormick .... ¤ 389-5193
28529 William George ..76 389-2610
28540 Leo Moddeman ..91 389-1079
28727 Raeburn E Kriesel .81 389-2511
28820 Gerald R Owens ..71 389-4792
28841 Charlotte Wallin ..89 389-2062
31720 Terry Hible 79 389-4817
31737 Earl Hamann ...81 389-1133
31806 May Hible 62 389-5860
11 RESIDENCE

121ST ST
RR 6 56371
31237 Mark Walsh 94 389-5234
31340 Paul Neubauer ... ¤ 389-5795
2 RESIDENCE

122ND ST
RR 6 56371
31123 David R Boudin ..93 389-5109
31132 Curt Winkelman ..89 389-2020
31220 Donald Krob 94 389-2307
31225 Michael Fasbender 92 389-5676
31232 J L Swenson 89 389-5963
31239 Darwin Swenson ..91 389-4950
6 RESIDENCE

123RD ST
RR 6 56371
31226 Bradley Belair ...94 389-9001
31603 R Affeldt 77 389-3074
31611 .... NP
31619 Jerald Jenson ...88 389-4083
31630 Daniel Ciskovsky ..89 389-1615
5 RESIDENCE

124TH ST
RR 6 ....
31443 Brad George ...
31461* R W Builders Inc
31723 Dennis F Thompso
31841* R D Winkelman .
32033* Skogquist Trckng
*Skogquist Trckng
32233* Haul-A-Dog Inn .
32272* Lay It Again Sam
RR 3 ....
32313* Winkelman Lumbe
2 RESIDENCE

125TH AVE
RR 4 ....
5717 Kevin Homstad ..
5930 Clifford Talberg .
6392 Steve Deglmann .
6474 Gary Ensler ....
6508 Walter Deglmann
6526 Gary Deglmann .
6535 Marlin Ege .....
6727 Sam Ellefson ...
8 RESIDENCE

125TH ST
RR 3 ....
31516* Liquidtn Warehse
31530* Sidmar Mfg Inc
31540 Ernest Wallin ...
*Ew Tooling ....
*Ernest Wallin ...
31906* Freedom Auto Prnc
31940* Foundation Realty
*Princetn Crpt&Lnlm
32010* Princeton Rental .
32022* Subway ......
1 RESIDENCE

125 1/2 ST NW
New Street-1991.
31413* Cenco Prep Shop

127TH AVE
RR 1 ....
2761 Fred Vanhofwegen
1 RESIDENCE

127TH ST
RR 3 ....
31230 Jerome Sandberg
31232 Harold O Bergeson
31243 Kenneth Sandberg .
31502 Joseph A Reilly ..
31508 Anthony K Blais ..
31617 Paul Carlson ....
31618 Craig Huggett ....
Wendy Mikeska ..
31623* Daryn Birkholz ..
*Deluxe Hrdwd Flrs
31626 Wayne R Soens ..
31627 David Freese ....
31633 Darrell King ....
31647 Thomas R Philippi .
12 RESIDENCE

128TH ST
RR 6 ....
29343 Lisa D Vigdal ...
RR 7 29800-29899 E
RR 6 29801-29899 O
29804 G Franklin .....
29818 Richd Vanbeusekom
29840 William Vetsch ...
29908 Randy Heinen ...
29936 Tom Minster ....
29711 William Rubin ...
29728 Jerry Leadens ...
29804 Leon Dux ......
29822 Thomas J Johnson
29839 Edmund Bergquist .
RR 6 ....
29933 Alfred Houran ...
30004 Georgia June ....
Chris Oleson
RR 7 ....
30120 John Hoppe ....
30141 Chellis L Matz ...
30236 .... NP

RR 6 55371
8072 Rev Marvin Blaske 95 389-1286
★Blaske Marvin Rev 74 389-1286
★Zion Lutheran Ch .84 ⊙ 389-1286
★Zion Luth Ch Prsng 86 ⊙ 389-1286

RR 2 55371
6161 Ray Seklus 68 389-1659
6202 Craig Burlingame .70 389-1106
6836 Wayne Dalchow ..87 389-2184
7063 Richard C Ernst ..88 389-9566
7615
EX56 Gary Gray 77 389-4928
7641 Nell Gray 66 389-3576
7637 Harry K Moses ...88 389-4009
7639 Dennis Eichinger ..84 389-5346
Mary F Ward 84 389-5346
7678 Apartments
A Dick Matthewman .■ 389-3758
Jessica Paus ....¤ 389-0285
7739 L M Evans 97 389-1177
Michl Floerchinger 97 389-1177
8342 Larry A Johnson ..86 389-9029
8381 Gerald Braggs ...71 389-4634
8724 Steven L Peterson .80 389-5437
38 RESIDENCE 3 BUSINESS

70TH ST

RR 4 55371
7902 Robert Hallberg ..93 389-1501
7904 C A Matson 88 389-3828
8074 Jerry Erickson ...94 389-4434
8128 Bill Haroldson ...87 389-5585
8153 Doug Henchen ...88 389-3445
8636 George Boettcher .72 389-4880
8237 W Bohn 97 389-0850
8445 Brian L Elgin 98 389-3994
8752 Todd Ellingson ...97 389-0311
8784 Steven P Nelson ..86 389-4330
10642 Alan R Williams ..89 389-8108
11 RESIDENCE

72ND AVE

New Street-1993.

RR 5 55371
1944 Robert Gaylor 94 389-8851
1876 Bill Wawers 93 389-8153
2 RESIDENCE

75TH AVE

RR 7 55371
2142 L Schaupp ......– 389-0186
V Wiedewitsch ...¤ 389-9783
2174 Donald W Lueck ..95 389-4924
2181 Marvin Woodhouse 97 389-4334
2206 P L Hobert 98 389-1042
2247
EX11 Jim Miller 96 389-3054
2273 J M Landwey ...83 389-3917
2306 Tharold Whitcomb .81 389-2068
2342 Arnold W Alfermann 73 389-2206
2357 .... NP
2409 Patricia Ruud ....■ 389-8450
2421 .... NP
2428 George Fink 81 389-9840
2443 Merlin M Hanson .75 389-4386
2445 Erma Rust 79 389-1093
2486 Douglas B Patten .88 389-1135
2487★Abney Recycle Inc 389-8030
2534 Russell V Klein ..95 389-5790
2569 Roger Stay 78 389-3871
2641 Lloyd Cordies ...95 389-3833
2738 Steve Bilyeu ....¤ 389-4721
Florence Ziebarth .93 389-2298
2782 Rodney Biesse ...– 389-1987
★D & L Supper Club 88 389-5728
2824 Doug Zentner ....¤ 389-6957
2863 Tony M Kooiman .74 389-4988
2875 Michael R Johnson 67 389-4814

RR 8 55371
3021 Scott Skelton ...93 389-1909
3211 John Westling ...92 389-2498
3293
EX418 Tom Fry 96 389-3184
3348 Fred Wilhelm 84 389-3688
3467 Thomas Loberg ..96 389-1982
3666 Linda Boettcher ..87 389-3371
4168 J R Nowak .....¤ 389-8829
4493 Thomas Geurkink .98 389-2509
4623 R Heryla 97 389-2494
4672 Rodney Brand ...■ 389-3607
Ralph Keen .....¤ 389-9388
4735 E Alvord ......¤ 389-0735
Greg McBroom ...82 389-3231
4807 Charles Freese ..90 389-4923
4824 Ellen Edmonds ..98 389-4987
5018 C Mills 94 389-8958

5354 Joseph W Jacobson 87 389-4620
5636 Randy Stacy 84 389-1983
43 RESIDENCE 2 BUSINESS

75TH ST

RR 2 55371
5498 Farrell Olsen 81 389-5573
6084 Doug Schwantes ..88 389-3723
6756 Lyle Jopp ......– 389-4117

RR 4 55371
7945 Arnold Sanborn ..83 389-3529
8182 James Burrows ..88 389-3894
6 RESIDENCE

76TH AVE

RR 7 55371
2404 Henry Erickson ...92 389-5923
2428 Donald J Peterson .96 389-5591
2436 Lowell Schwalbe ..97 389-0952
3 RESIDENCE

77TH AVE

RR 4 55371
5231 Emil Stacy 63 389-1488
5232 David Kornell 77 389-2705
5363 Richard L Stearns .73 389-4883
5496 Gaynor Frye 93 389-1486
4 RESIDENCE

80TH AVE

RR 4 55371
6243 Joel D Minks 84 389-5112
6284 Willie Minks 84 389-3890
6432 Tom Vrchota 98 389-0185
6738 Leo Oehmen 84 389-1494
6786 Eugene Stoeckel ..¤ 389-1318
5 RESIDENCE

80TH ST

RR 2 55371
5094 David Lemm 86 389-5070
5576 Ralph Hoeft 86 389-3639

RR 4 55371
7902 Harvey Loe 76 389-4849
10771 Dean Hiller 87 389-3867
10567 Steve Burroughs ..82 389-9842
10918 Lee A Freiheit ...79 389-3771
6 RESIDENCE

82ND AVE

RR 3 55371
3023 John Steven Peters ■ 389-5047
3054 Gerald Steringer ..74 389-2776
3206 Debi Peterson ...86 389-4000
3478 Ben Smithers 84 389-1868
4 RESIDENCE

85TH AVE

RR 3 55371
3013 S W Feeney Jr ..91 389-1404
3091 Dan Kuether 84 389-4248
3102 Wayne L Hicks ..87 389-4784
3104 Chad Barth .....– 389-9887
3146 Paul Neumann ...84 389-5783
3173 Tim Bredemus ...86 389-3185
3277 Patty Hatch 88 389-1284

RR 4 55371
3238 Dean Eckhart 97 389-0657
3384 Floyd Melchior ...84 389-9862
3401 .... NP
3419 Randy S Miller ...84 389-2282
3478 Wayne Bobendrier 84 389-4226
3482 .... NP
3567 Robert Alley 86 389-4774
3604 Dean Patten 84 389-1749
D L Steininger ...– 389-0680
3608★Hoefts Implement 389-2430
3640 .... NP
3831 Lester Hoeft 84 389-1459
3866 Richd O Gustafson 97 389-3752
4094 Gerald Gourley ...88 389-4675
4301 Betty Johannsen ..86 389-0159
David Johannsen .96 389-0159
Phyllis Lemay ...96 389-0159
4806 Bernie Weaich ...95 389-3712
5001 Marshall Dorn ...88 389-5322
5002 Walter Schimming .84 389-2879
5223 Steven Bockoven .97 389-1280
5248 .... NP
5497 Sidney Christ 78 389-2870
5809 Wayne Patten ...97 389-2869
6172 Henry D Bird 74 389-2887
6240 Larry Patten 87 389-5735
6778 Otto Leider 71 389-2880

7398 Ronald Neumann .60 389-4512
7393 Tazzma Teflinger ..¤ 389-0987
7824 Kenneth C Neumann 87 389-5111
7828 Terry Norman ...84 389-1049
57 RESIDENCE 1 BUSINESS

85TH ST

RR 2 55371
6637 Ben Hamann 81 389-3877
1 RESIDENCE

90TH AVE

RR 3 55371
3072 Douglas Petnode .98 389-4243
3094 Jeff Murray 95 389-9282
3101 Corrine Gamradt ..88 389-2460
3116 Dewitt Lane 85 389-4357
3148 Michael Brytowski .– 389-8863
3183 Clarence Baker ..90 389-4713
3162 Michael Shea ...¤ 389-5720
3185 Harvey D Anderson 98 389-4952
3207 Douglas Kok 79 389-4876
3216 S Hoeft ....¤ 389-8885
3238 Daniel Osborn ...98 389-0060
3242 Scott Peterson ...¤ 389-3847
3264 James Bartz 95 389-5879

RR 4 55371
5641 Virgil Schmatz ...85 389-2187
6261 J A Berndt 87 389-4886
6923 Cary Poorker 95 389-4016
16 RESIDENCE

90TH ST

RR 4 55371
7532 Jay Gunderson ...¤ 389-4739
7806 Ray Tellinghuisen .80 389-2886
8931 Mike Larsen 75 389-4370
8854 John Palmer 97 389-0987
9228 James Hane ....¤ 389-8854
9261 Gerald Pangerl ...70 389-1862
9636 Myron Zoren 93 389-8618
9697 .... NP
8 RESIDENCE

100TH AVE

RR 1 55371
1162 Simon W Thielen .60 389-3427
1261 Gary Anderson ...63 389-3326
1687 John Edmonds ...74 389-1142
1849 Robert M Pontious 70 389-4868
2012 Edward A Trunk ..84 389-3381
2045★Assembly of God .84 389-2406
2081★Assembly God Ch .83 389-4068
2100 T Donner 88 389-4581
2148 Del Liestman 73 389-1233
2183 Earl N Brooks ...80 389-2808

RR 4 55371
2426 Wallace Lefebvre .70 389-2236
Robert Webb 88 389-2279
2827 Henry Sakry 70 389-1141
2919 Steven P Davis ..84 389-4322
3021 Leonard Sanford ..63 389-2836
3124 Richd R Sproessig .76 389-4077
3208 Carl G Sanford ...63 389-4060
3516 Bernard Sanford ..63 389-2838
3668 Douglas Sanford ..63 389-2838
3748 Roger C Nelson ..96 389-4220
4061 Richard W Sanford 79 389-1875
4864 Clifford Bergfeld ..80 389-2145
4867 Daniel Minks 80 389-1939
★Go Driving School .88 389-2832
4989 Bernard Minks ...80 389-2849
5127 Rodney Clemons ..76 389-2240
5158 .... NP
5465 Bill Irvine 98 389-3259
6468 Ronald H Werner .97 389-1900
★Werner Ronald H .97 389-1900
★Werners Garage ..97 ⊙ 389-1900
6487 .... NP
7206 Kurt Homstad ...88 389-3562
7403 Laurence Winter ..71 389-4987
7647 Scott Potvin ....■ 389-8404
7648 Gerald Morris ...97 389-0784
7692 Anton J Renko ...73 389-2167
32 RESIDENCE 5 BUSINESS

100TH ST

RR 6 55371
28640 Lee Komula 94 389-8860
28647 Richard Lindahl ..98 389-5815
28722 Joe Cantrell ....■ 389-3072
Chad Welu 84 389-5552
29741 Robert F Gallus .. 389-4133
28818 Brad Bohn 97 389-0689
Briony Lausner ...97 389-0689

SUBURBAN

Environmental Data Resources, Inc.

"Linking Technology with Tradition"

Sanborn® Map Report

Ship To: Marcae Woodward
Delta Environmental
5910 Rice Creek Parkway
Shoreview, MN 55126

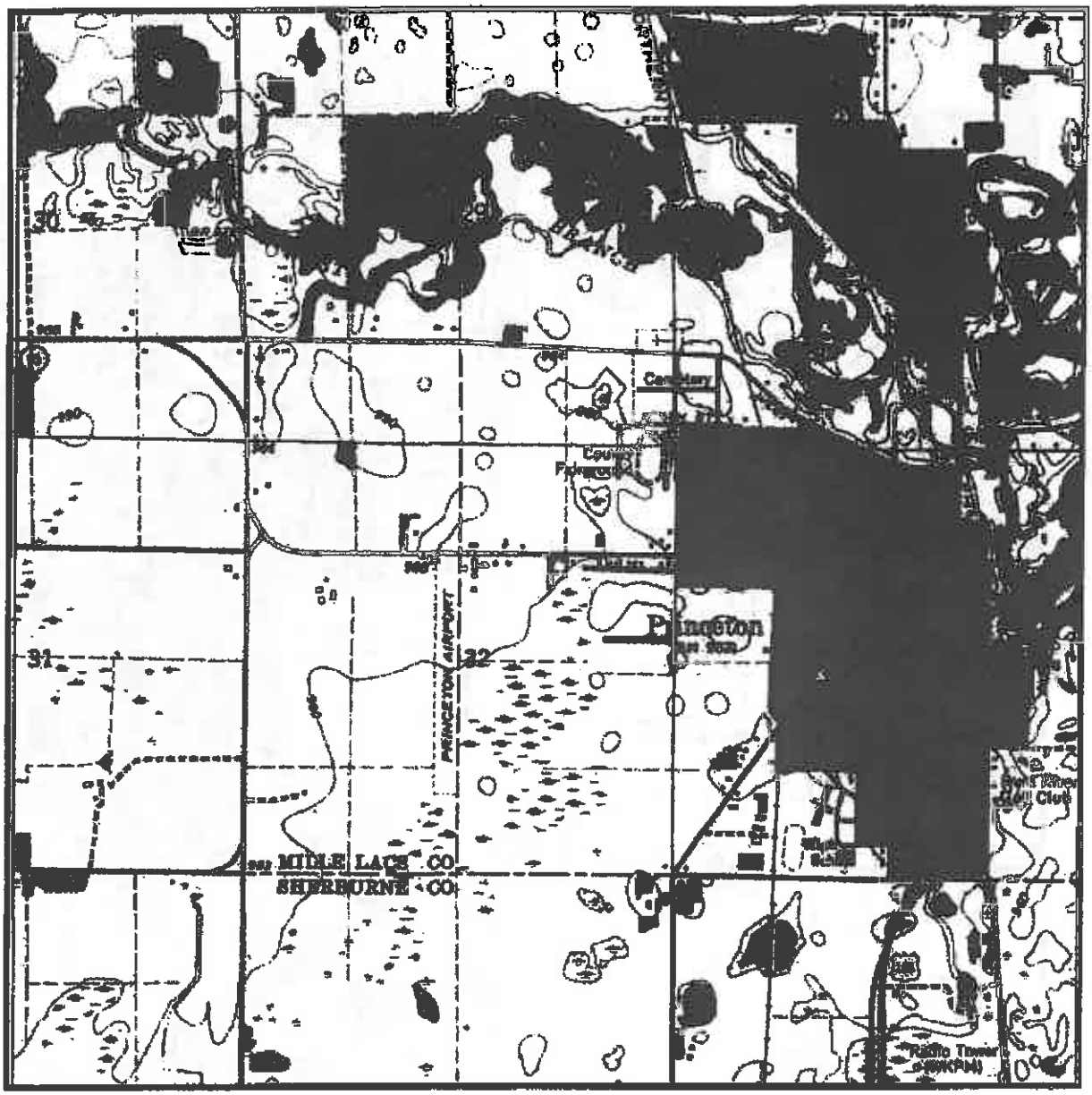
Order Date: 2/18/2004 **Completion Date:** 2/19/2004
Inquiry #: 1131386.2s
P.O. #: NA
Site Name: Heritage Village
Address: Highway 95 and 100th Avenue
City/State: Princeton, MN 55371
Cross Streets: 17th Street

Customer Project: A004-111-1.0001
)11339SMI 651-639-9449

This document reports that the largest and most complete collection of Sanborn fire insurance maps has been reviewed based on client supplied information, and fire insurance maps depicting the target property at the specified address were not identified.

NO COVERAGE

HISTORICAL MAPS



UNITED STATES GEOLOGICAL SURVEY 7.5 MINUTE SERIES TOPOGRAPHIC MAP

SCALE 1:24 000

1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

Historical Information Gatherers, Inc.

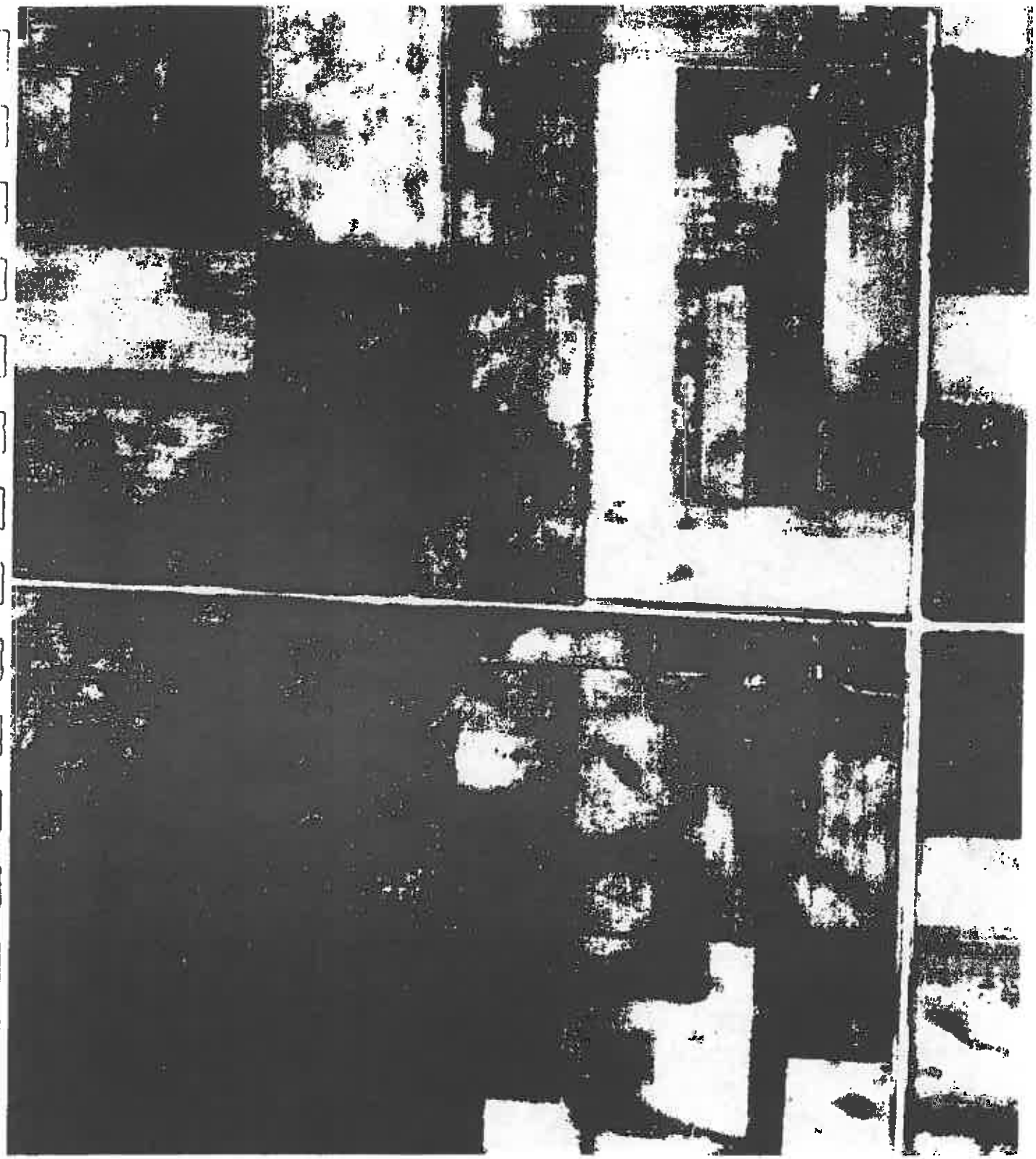
QUADRANGLE LOCATION

PRINCETON, MINN.

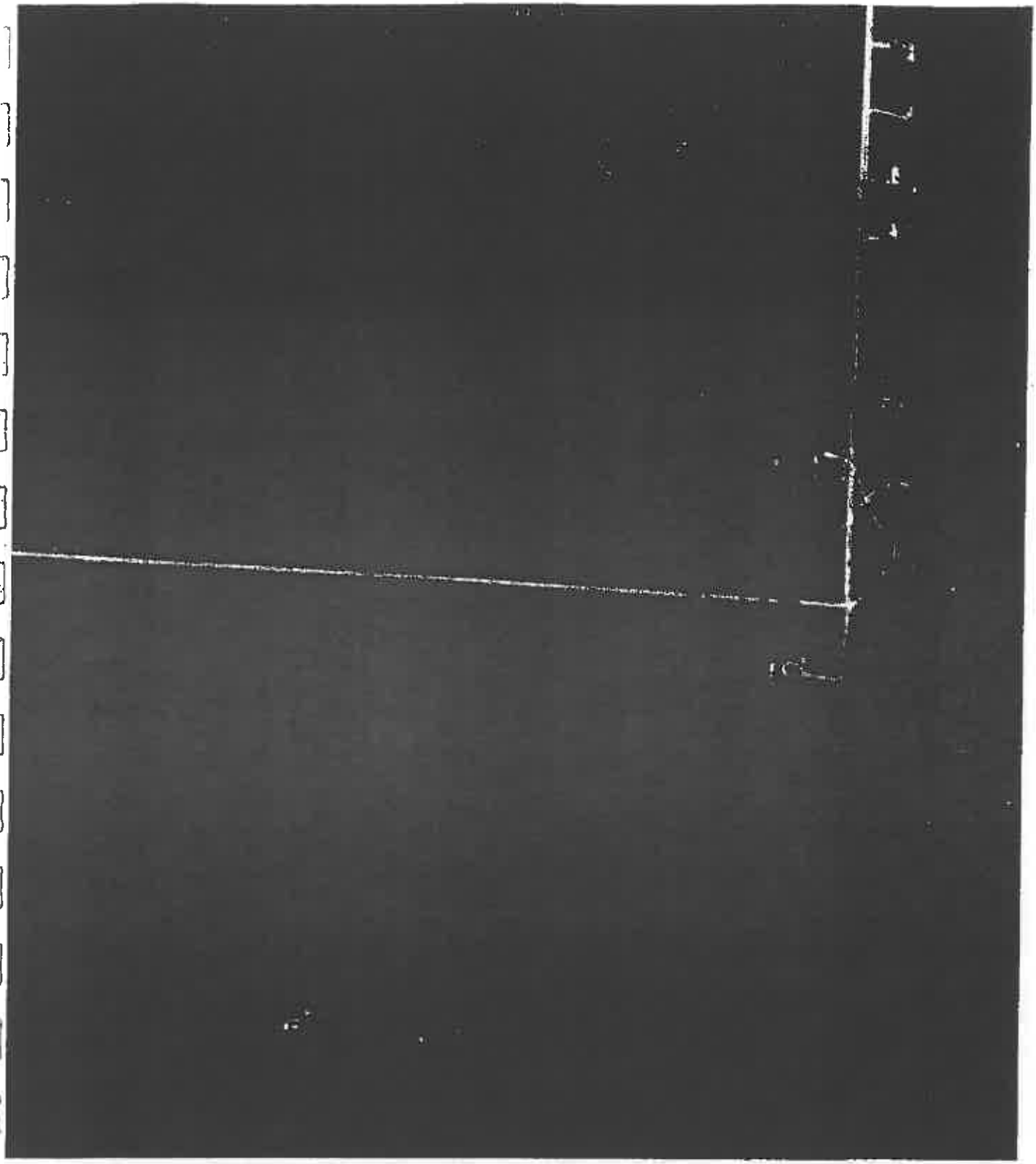
1968

APPENDIX F

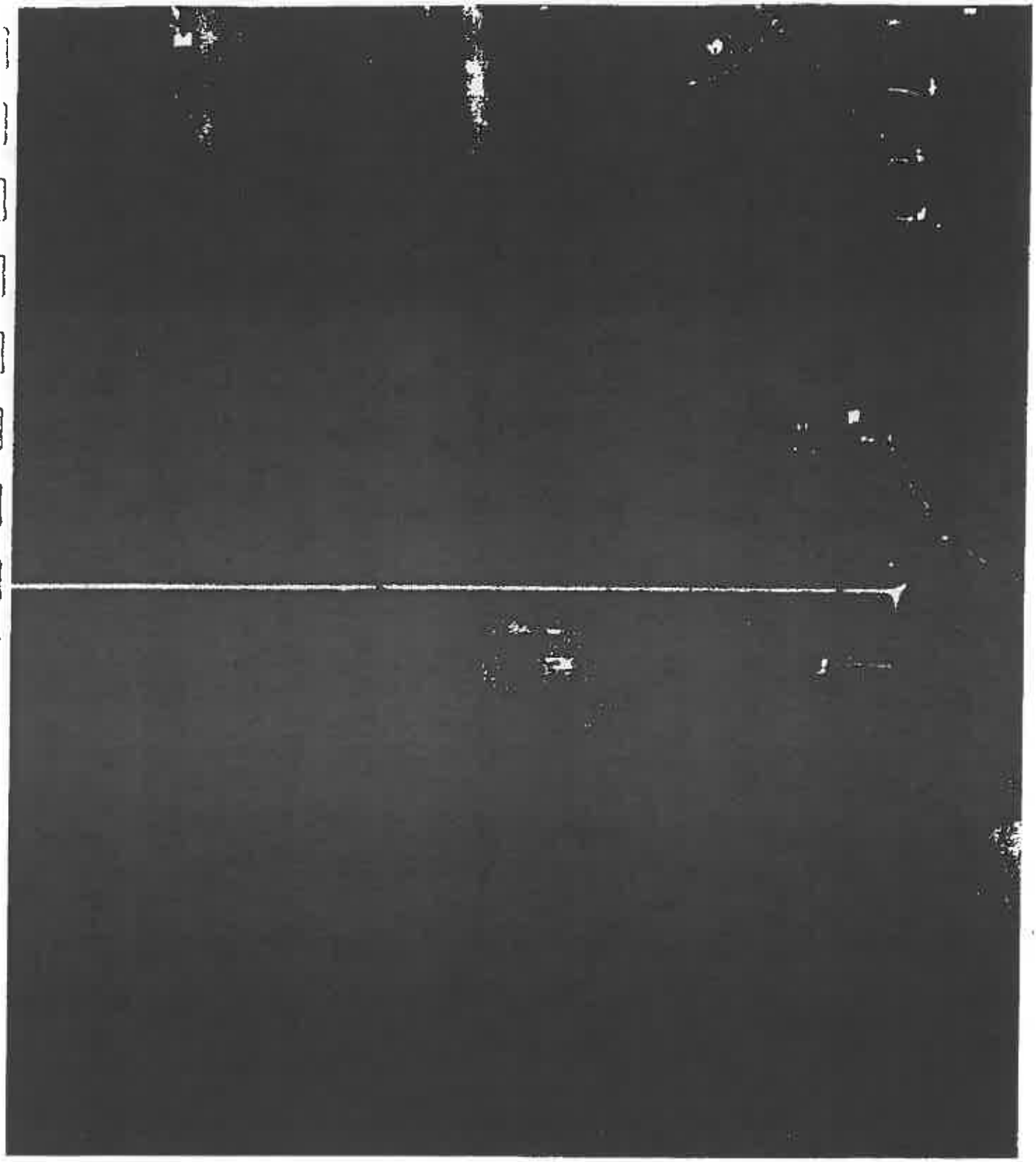
Aerial Photographs



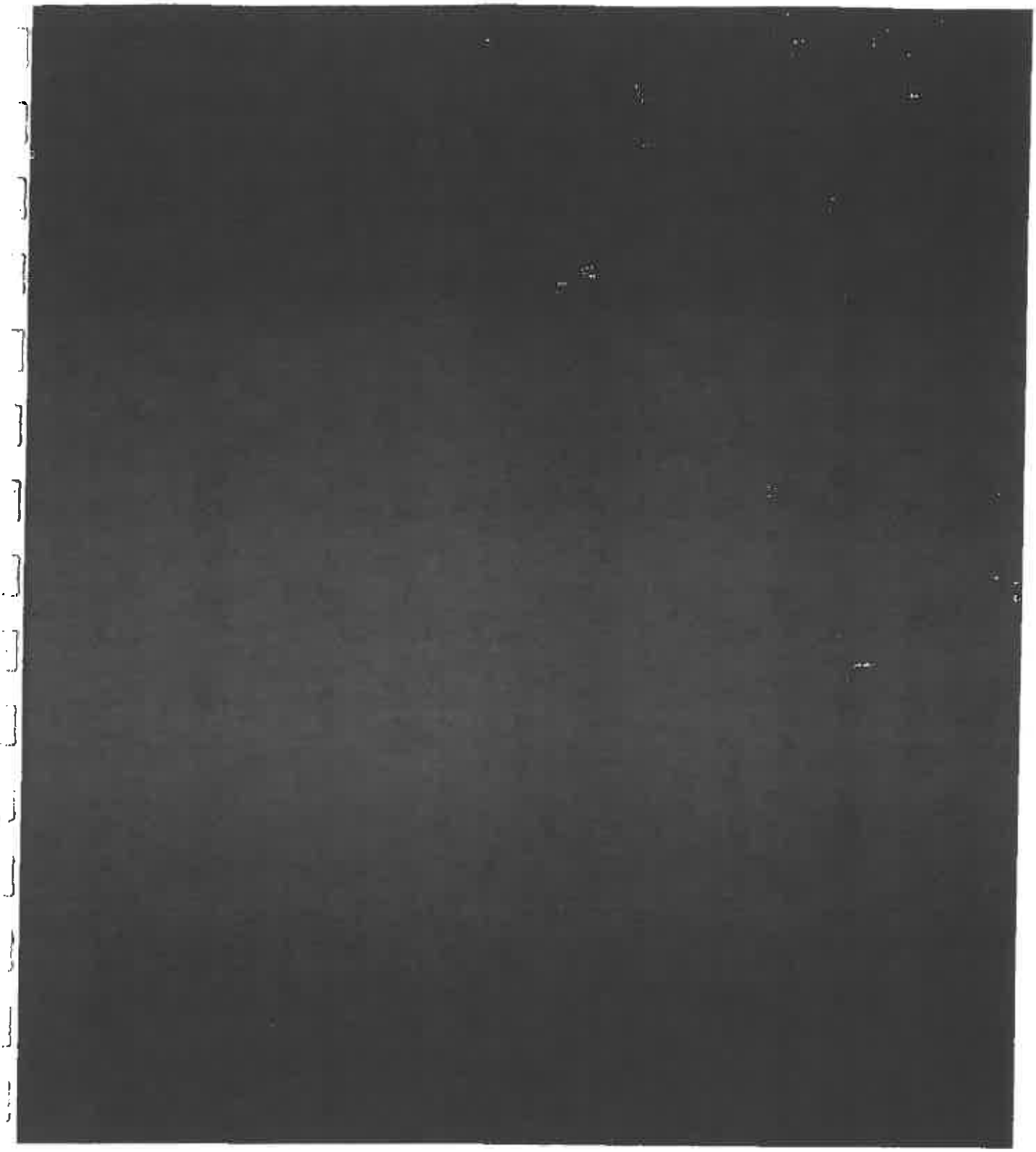
Historical Information Gatherers, Inc.	Heritage Village Princeton, Minnesota	1939 HIG Project Number: MAE-1174 Client Project Number: A004-111-1.0001 Approximate Scale 1:6000 (1"=500')	N W E S



Historical Information Gatherers, Inc.	Heritage Village Princeton, Minnesota	1965 HIG Project Number: MAE-1174 Client Project Number: A004-111-1.0001 Approximate Scale 1:6000 (1"=500')	N W E S



Historical Information Gatherers, Inc.	Heritage Village Princeton, Minnesota	1983 HIG Project Number: MAE-1174 Client Project Number: A004-111-1.0001 Approximate Scale 1:6000 (1"=500')	N W E S



Historical Information Gatherers, Inc.	Heritage Village Princeton, Minnesota	2003 HIG Project Number: MAE-1174 Client Project Number: A004-111-1.0001 Approximate Scale 1:6000 (1"=500')	N W E S

WELL INFORMATION

Unique No. 638466
County Name Mille Lacs

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Update Date 2000/09/12
Entry Date 2000/05/12

Township Name	Township	Range	Dir	Section	Subsection
	36	26	W	31	BBB

Well Depth 105 ft. | Depth Completed 100 ft. | Date Well Completed 2000/04/06

Well Name MILLER, ERIC

Drilling Method Non-specified Rotary

Contact's Name MILLER, ERIC
1946 107TH AV
PRINCETON MN 55371-

Drilling Fluid: Bentonite

Well Hydrofractured? ☐ Yes ☑ No
From ft. to ft.

Use Irrigation

Casing: Drive Shoe? ☐ Yes ☑ N
8 in. to 85 ft

Hole Diameter
in. to 105 ft

Casing Diameter: Weight(lbs/ft)

GEOLOGICAL MATERIAL	COLOR	HARDNESS	FROM	TO
SAND, FINE	BROW		0	10
SAND	BROW		10	20
CLAY & ROCKS	BROW		20	74
SAND, FINE	BROW		74	76
CLAY	BROW		76	78
SAND, FINE	BROW		78	80
SAND	BROW		80	100
CLAY	BROW		100	105

Screen Y | Open Hole From ft. to ft.

Make JOHNSON | Type L

Diameter	Slot	Length	Set	Fitting
8	60	15	85 ft. to 100 ft	

Static Water Level 7 ft. from Land surface Date 000/04/06

PUMPING LEVEL (below land surface)
79 ft. after 5.5 hrs. pumping 300 g.p.m.

Well Head Completion
Pitless adapter mfr Model
Casing Protection ☑ 12 in. above grade
☐ At-grade(Environmental Wells and Borings ONLY)

Grouting Information: Well grouted? ☑ Yes ☐ No

Material	From	To (ft.)	Amount(yds/bags)	
B	0	30	7	S
C	30	75		

Nearest Known Source of Contamination
ft. direction type
Well disinfected upon completion? ☑ Yes ☐ No

Pump ☑ Not Installed Date Installed N
Mfr name
Model HP Volts
Drop Pipe Length ft. Capacity g.p.m
Type

Any not in use and not sealed well(s) on property? ☐ Yes ☑ No

Was a variance granted from the MDH for this Well? ☐ Yes ☑ No

REMARKS, ELEVATION, SOURCE OF DATA, etc.

WELL LOCATION INFO: N 45o 34.331 / W 093o 37.456

USGS Quad: Elevation
Aquifer: Alt Id:

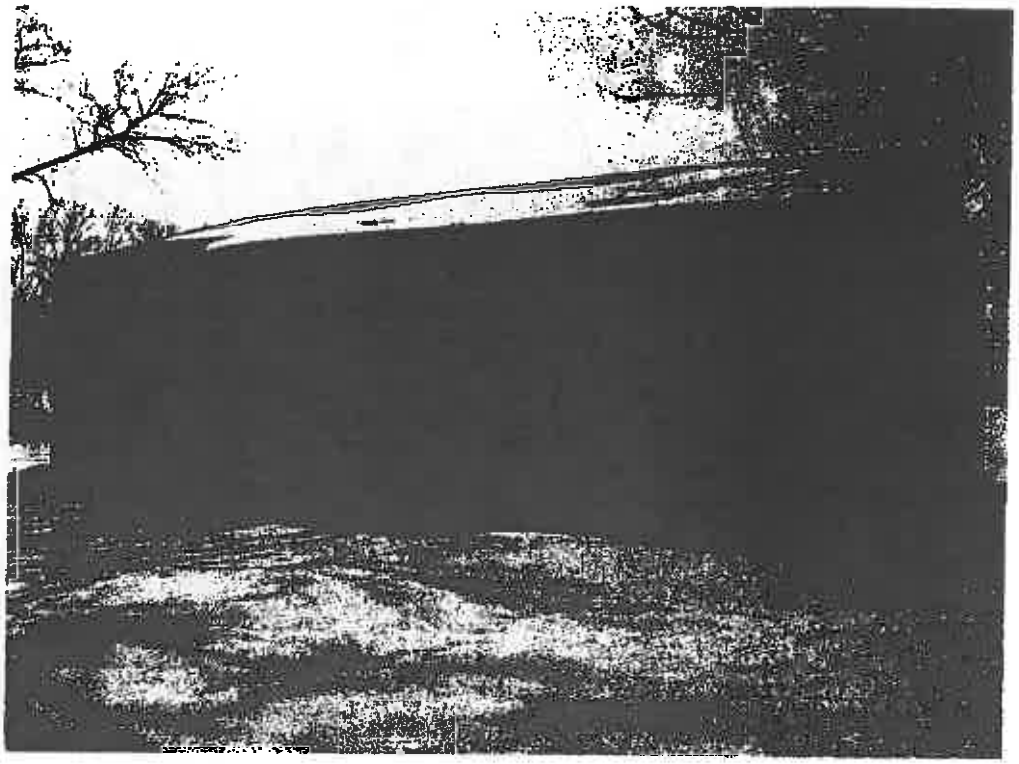
Report Copy

Well CONTRACTOR CERTIFICATION Lic. Or Reg. No. 71536
License Business Name Traut M.I. Well Co.
Name of Driller ROBBIE

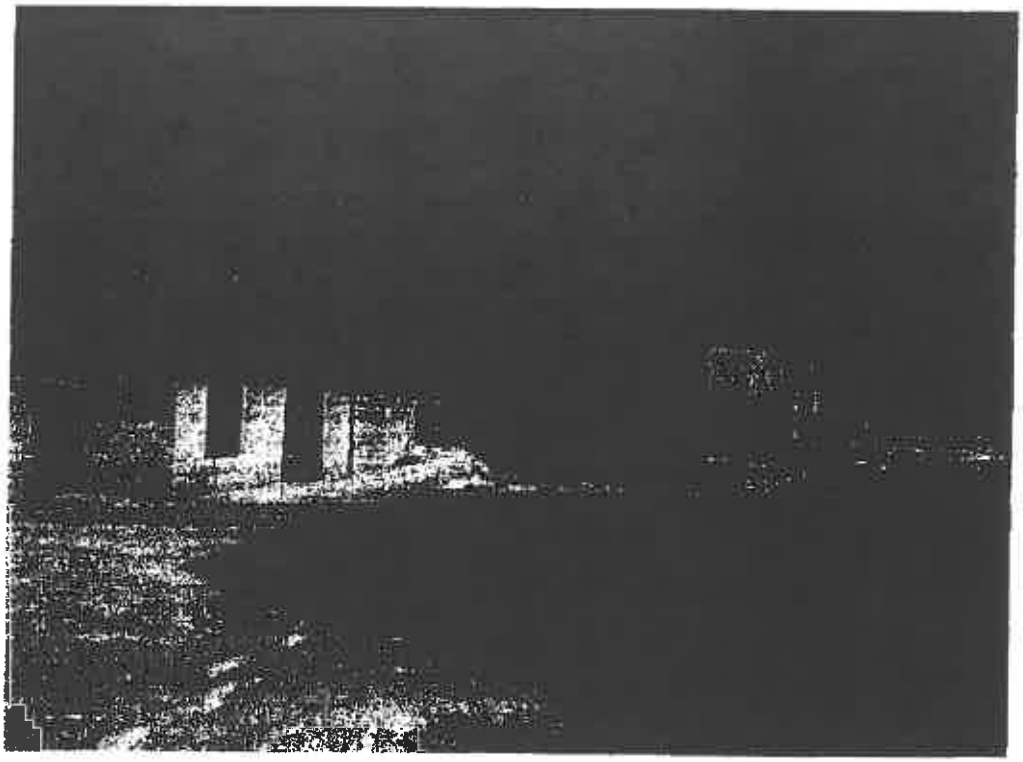
HE-01205-06 (Rev. 9/96)

APPENDIX H

Subject Property Photographs

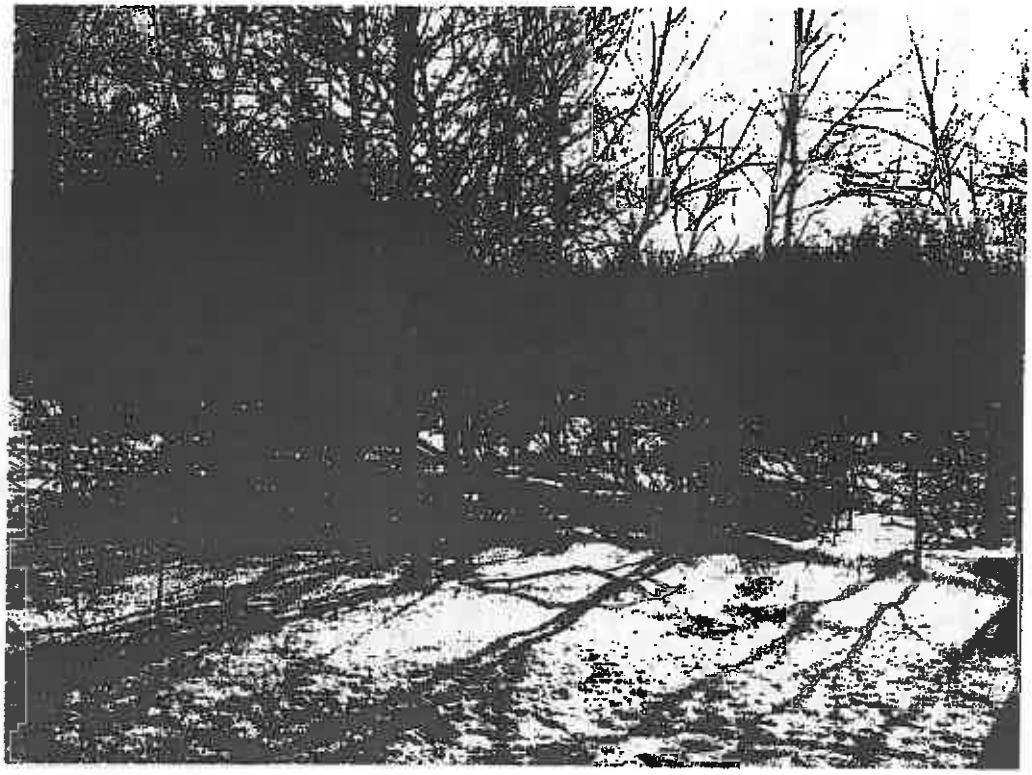


Photograph 3
Building #3 – Outside storage shed

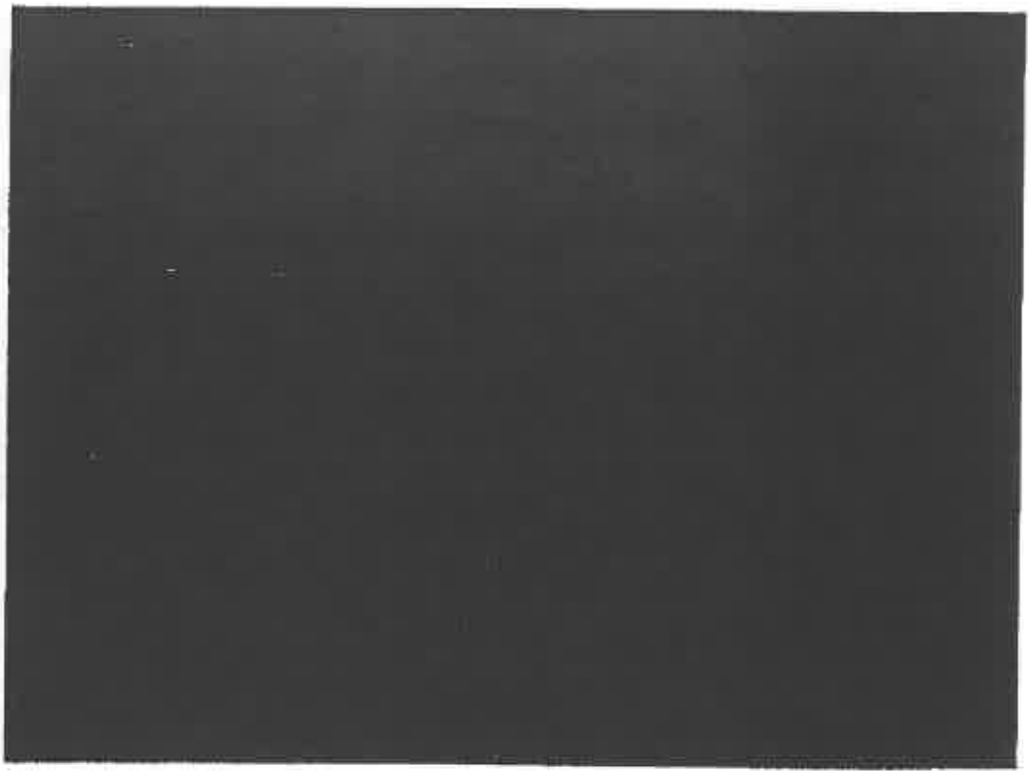


Photograph 4
Building #4 – Barn (note two empty metal drums next to silo)

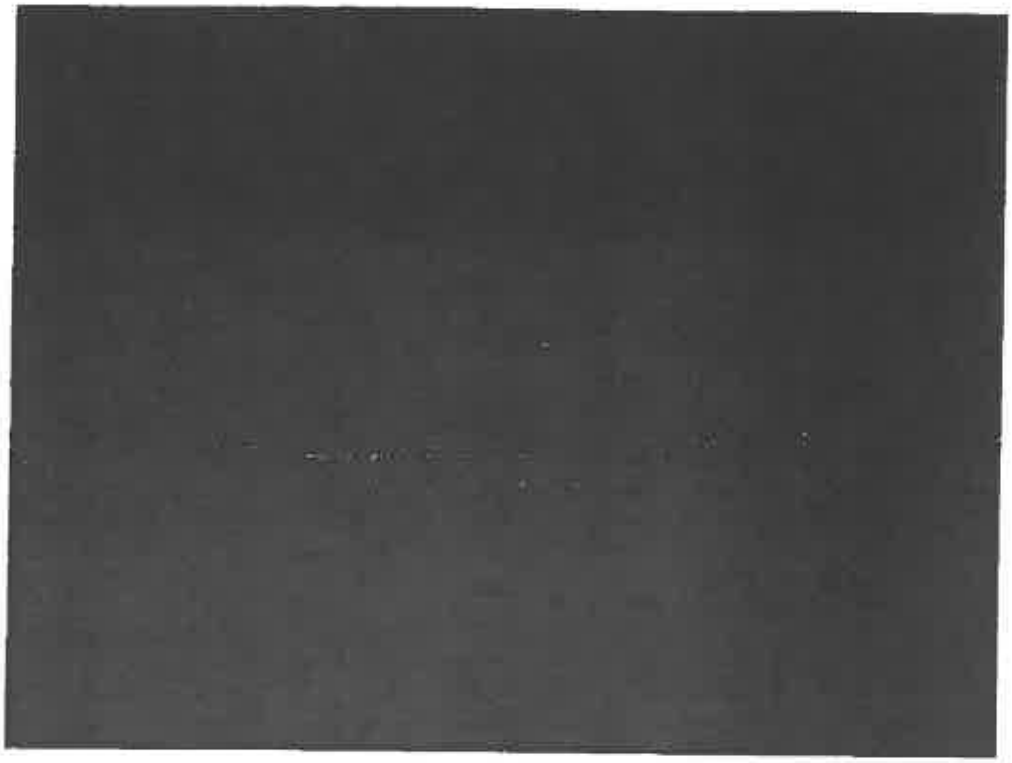
Photograph 6
Inside of Building #2



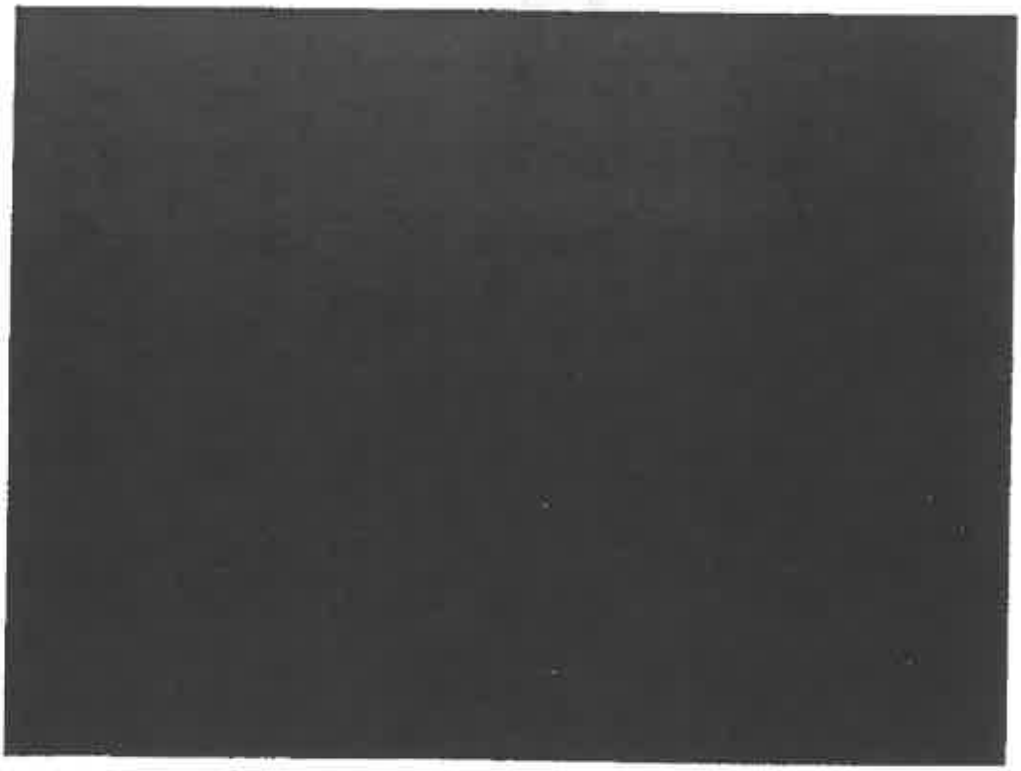
Photograph 9
Wooded portion of property



Photograph 10
Field west of house on subject property (i.e., facing west from 1687 100th Avenue)



Photograph 13
Subject property, facing north from 17th Street



Photograph 14
Wetland area, just north of 17th Street

APPENDIX I

Project Team Profiles

Delta Environmental Consultants, Inc.

Keith E. Knoke, PG

Experience Summary

Keith E. Knoke is a Project Manager at Delta Environmental Consultants, Inc. He has more than nine years of experience in environmental consulting. His technical expertise is in performing Phase I and II Environmental Assessments and remedial investigations, and in the landfill/ environmental practice area, where his responsibilities have included assessing ground water geochemistry, evaluating site hydrogeologic conditions, performing field geology and hydrogeology tasks, performing statistical evaluations of data, and developing ground water flow and contaminant transport models.

Education and Professional Development

M.S. Geology – Michigan State University, East Lansing, Michigan
B.A. Geology – University of St. Thomas, St. Paul, Minnesota
B.A. History – University of St. Thomas, St. Paul, Minnesota

EICE Short Course, "Avoiding Common Mistakes When Estimating First-Order Biodegradation Rates" by Grant Carey, 2001.
NGWA Short Course, "Transport and Fate Principles and Parameter Estimation Use in Modeling for Risk-Based Evaluation and Screening of Soil Contamination" by Michael Barden, 1999.

Professional Affiliations and Registrations

Registered Professional Geologist, Illinois #196-000386
Registered Professional Geologist, Minnesota #30277
Registered Professional Geologist, Wisconsin #1141-013
40-Hour OSHA 1910.120 Hazardous Waste Training and Annual 8-hour Refreshers
Troxler Density and Moisture Gauge Certified
Minnesota Groundwater Association
National Groundwater Association

Representative Project Experience

Performed compliance audits at a number of agricultural chemical storage and transportation facilities. The project included the preparation of applicable regulations and rules list, site visit, and report preparation.

Served as a project manager on a combined Phase I/Phase II Environmental Assessment of a horseshoe foundry facility in Minnesota. Primary duties included budget management, oversight of field activities, and report preparation. Due to contamination found on site, the site entered the Minnesota VIC Program. Site closure was obtained in a timely fashion and assured a successful property transfer.

Served as a project manager on a combined Phase I/Phase II Environmental Assessment of a proposed commercial development site in Minnesota. Worked closely with staff from the Minnesota Voluntary Petroleum Investigation and Cleanup Program (VPIC) to assess ground water contamination found on site. Conducted hydrogeologic investigation and determined ground water contamination was due to an off-site source.

Served as a project manager on a combined Phase I/Phase II Environmental Assessment of a proposed multi-unit residential development in Hinsdale, Illinois. Primary duties included preparation of a risk-based site evaluation and corrective action design. Worked closely with the developer and Illinois Environmental Protection Agency staff, which ultimately led to a successful development of the property.

Served as project manager on an environmental due diligence project that involved the acquisition of 25 bulk storage facilities in the US and Canada. Delta conducted Phase II Environmental site assessments, provided corrective action costs, assisted in reporting and compliance auditing tasks, that helped result in a successful merger and acquisition.

Served as project manager on an environmental due diligence project that involved the acquisition of seven offset and lithographic printing facilities located in the US and Puerto Rico. Delta conducted Phase I and Phase II environmental site assessments and compliance auditing that helped result in a successful merger and acquistion

Served on several litigation support teams for the defense of cost recovery claims regarding the release of manufactured gas plant wastes to the soil and ground water.

Served as project hydrogeologist for four MPCA orphan sites. The projects included review, organizing data, subcontractor scheduling, and report preparation.

Served as project hydrogeologist for Minnesota Department of Agriculture (MDA) site in Castle Rock, Minnesota, and successfully completed a soil remediation. Tasks included field supervision, sample collection, and report preparation.

Assisted in the performance of a large-scale subsurface exploration and pump test project the Fermi National Accelerator Laboratory in Illinois.

Assisted in the performance of a large-scale geophysical survey of a naval air station in Illinois.

Performed ground water pump tests in Illinois and Georgia.

Performed a large hydrogeologic study in Illinois for the Illinois Department of Transportation. Project included approximately 30 pneumatic slug tests, four pump tests, data evaluation, and report preparation.

Performed numerous annual ground water and quarterly ground water reports for a number of landfills in the states of Minnesota, Illinois, and Virginia. Projects included evaluation of hydrogeologic and ground water data, regulatory compliance review, and report preparation.

Developed and implemented an assessment monitoring plan for a landfill in Virginia. This project included deep monitoring well installation, design of dedicated ground water monitoring system, and evaluation of ground water chemistry data.

Performed duties related to the development of a Significant Modification Permit for a landfill in Southern Illinois. These duties included supervision of drilling operations, ground water monitoring and leachate well installation, well development, hydraulic conductivity tests, and sample collection. Also supervised the installation of a Sealed double Ring Infiltration (SDRI), as well as the trained personnel in the use of the SDRI.

Performed and managed a large-scale ground water monitoring network installation and well abandonment program in Bristol, Virginia.

Developed ground water monitoring plans for landfills located in Virginia and Illinois.

Performed and analyzed a one-month long gas generation pump test in New Jersey.

Provide on-going pro bono consulting for the Civil War Preservation Trust. Projects included the performance of Phase I Environmental Assessments and report review.

Presentations and Publications

"Temporal trends in nitrogen isotope values of nitrate leaching from an agricultural soil." Chemical Geology 146 (1998) 219-227.